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OM protein - protein search, using sw model

Run on: February 3, 2005, 09:30:00 ; Search time 38 Seconds  
(without alignments)  
8.726 Million cell updates/sec

Title: US-09-998-491A-4  
Perfect score: 24  
Sequence: 1 SMRER 5

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues  
Total number of hits satisfying chosen parameters: 26

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 400 summaries

Database : Issued Patents\_AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	24	100.0	17	5	PCT-US92-09070-17
2	24	100.0	59	3	US-09-125-984-2
3	24	100.0	72	1	US-08-542-363-33
4	24	100.0	72	3	US-09-100-089-33
5	24	100.0	72	4	US-09-670-827-33
6	24	100.0	72	4	US-09-827-949-33
7	24	100.0	146	4	US-09-270-767-32846
8	24	100.0	146	4	US-09-270-767-48063
9	24	100.0	266	2	US-08-469-537A-54
10	24	100.0	269	2	US-07-857-224B-69
11	24	100.0	332	2	US-08-469-537A-75
12	24	100.0	370	3	US-08-857-076-107
13	24	100.0	397	4	US-09-270-767-59453
14	24	100.0	398	4	US-09-270-767-61266
15	24	100.0	484	4	US-09-489-039A-11971
16	24	100.0	561	4	US-09-252-991A-26977
17	24	100.0	582	3	US-09-034-177-1
18	24	100.0	1146	4	US-09-270-767-45747
19	24	100.0	1220	4	US-09-270-767-4
20	24	100.0	1220	4	US-09-270-767-44045
21	24	100.0	1220	4	US-09-715-962-4
22	24	100.0	1367	2	US-08-249-687C-2
23	24	100.0	1367	2	US-08-625-819-2
24	24	100.0	1367	3	US-08-746-559A-2
25	24	100.0	1367	3	US-08-864-641B-18
26	24	100.0	1367	4	US-09-343-551-2

ALIGNMENTS

RESULT 1  
PCT-US92-09070-17  
; Sequence 17, Application PC/TUS9209070  
; GENERAL INFORMATION:  
; APPLICANT: Saitoh, Tsunao [NMI]  
; TITLE OF INVENTION: SUBSTANCES HAVING THE GROWTH-PROMOTING  
; TITLE OF INVENTION: EFFECT OF AMYLOID PRECURSOR PROTEIN  
; NUMBER OF SEQUENCES: 18  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Knobbe, Martens, Olson and Bear  
; CITY: Newport Beach  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 92660  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US92/09070  
; FILING DATE: 19921023  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Altman, Daniel E  
; REGISTRATION NUMBER: 34,115  
; REFERENCE/DOCKET NUMBER: UC035.001A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (714) 760-0404  
; TELEFAX: (714) 760-9502  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 amino acids  
; TYPE: AMINO ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE: internal  
PCT-US92-09070-17  
  
Query Match 100.0%; Score 24; DB 5; Length 17;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 SMRER 5  
DB 4 SMRER 8  
  
RESULT 2  
US-09-125-984-2  
; Sequence 2, Application US/09125984  
; Patent No. 6248936  
; GENERAL INFORMATION:  
; APPLICANT: Hefgen, Rainer  
; APPLICANT: Hesse, Holger  
; TITLE OF INVENTION: Storage Root Specific Regulon of Sugar Beet  
; FILE REFERENCE: 07089.0004  
; CURRENT APPLICATION NUMBER: US/09/125,984  
; CURRENT FILING DATE: 1999-02-16  
; EARLIER APPLICATION NUMBER: PCT/EP96/05858  
; EARLIER FILING DATE: 1996-12-30  
; EARLIER APPLICATION NUMBER: 196 07 697.8 DE  
; EARLIER FILING DATE: 1996-02-29  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 4.0

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/ SEQ ID NO 2
/ LENGTH: 59
/ TYPE: PRT
/ ORGANISM: Beta vulgaris
US-09-125-984-2

Query Match 100.0%; Score 24; DB 3; Length 59;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5
Db 10 SMRER 14

RESULT 3
US-08-542-363-33
; Sequence 33 Application US/08542363
; Patent No. 5770421
; GENERAL INFORMATION:
; APPLICANT: Morris, Stephan W.
; APPLICANT: Look, A. Thomas
; TITLE OF INVENTION: ALK Protein Tyrosine Kinase/Receptor and
; LIGANDS THEREOF
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
; STREET: 1100 New York Avenue, N.W., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/542,363
; FILING DATE: 12-OCT-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fox, Samuel L.
; REGISTRATION NUMBER: 30,353
; REFERENCE/DOCKET NUMBER: 0656.0400001/SLF/GKT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 72 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-542-363-33

Query Match 100.0%; Score 24; DB 1; Length 72;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5
Db 14 SMRER 18

RESULT 4
US-09-100-089-33
; Sequence 33, Application US/09100089
; Patent No. 6174674
; GENERAL INFORMATION:
; APPLICANT: Morris, Stephan W.
; APPLICANT: Look, A. Thomas
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/ TITLE OF INVENTION: ALK Protein Tyrosine Kinase/Receptor and
/ LIGANDS THEREOF
/ NUMBER OF SEQUENCES: 43
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
/ STREET: 1100 New York Avenue, N.W., Suite 600
/ CITY: Washington
/ STATE: DC
/ COUNTRY: USA
/ ZIP: 20005
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/100,089
/ FILING DATE: Herewith
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/160,861
/ FILING DATE: 03-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/542,363
/ FILING DATE: 12-OCT-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Fox, Samuel L.
/ REGISTRATION NUMBER: 30,353
/ REFERENCE/DOCKET NUMBER: 0656.0400002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-371-2600
/ TELEFAX: 202-371-2540
/ INFORMATION FOR SEQ ID NO: 33:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 72 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Peptide
US-09-100-089-33

Query Match 100.0%; Score 24; DB 3; Length 72;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5
Db 14 SMRER 18

RESULT 5
US-09-670-827-33
; Sequence 33, Application US/09670827
; Patent No. 6451997
; GENERAL INFORMATION:
; APPLICANT: Morris, Stephan W.
; APPLICANT: Look, A. Thomas
; TITLE OF INVENTION: ALK Protein Tyrosine Kinase/Receptor and
/ LIGANDS THEREOF
/ NUMBER OF SEQUENCES: 43
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
/ STREET: 1100 New York Avenue, N.W., Suite 600
/ CITY: Washington
/ STATE: DC
/ COUNTRY: USA
/ ZIP: 20005
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
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APPLICATION NUMBER: US 09/670,827  
FILING DATE: 28-Sep-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/160,861  
FILING DATE: 03-DEC-1993  
APPLICATION NUMBER: US 08/542,363  
FILING DATE: 12-OCT-1995  
APPLICATION NUMBER: US 09/100,089  
FILING DATE: 19-JUN-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Fox, Samuel L.  
REGISTRATION NUMBER: 30,353  
REFERENCE/DOCKET NUMBER: 0656.0400003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 72 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 33:  
US-09-670-827-33

Query Match 100.0%; Score 24; DB 4; Length 72;  
Best Local Similarity 100.0%; Pred. No. 46; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
Db 14 SMRER 18  
|||||

## RESULT 6

US-09-827-949-33  
Sequence 33, Application US/09827949  
Patent No. 6696548  
GENERAL INFORMATION:  
APPLICANT: Morris, Stephan W.  
TITLE OF INVENTION: ALK Protein Tyrosine Kinase/Receptor and Ligands Thereof  
FILE REFERENCE: 0656.0400004  
CURRENT APPLICATION NUMBER: US/09/827,949  
CURRENT FILING DATE: 2001-04-09  
PRIOR APPLICATION NUMBER: US 09/670,827  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US 09/100,089  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: US 08/542,363  
PRIOR FILING DATE: 1995-10-12  
PRIOR APPLICATION NUMBER: US 08/160,861  
PRIOR FILING DATE: 1993-12-03  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 33  
LENGTH: 72  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-827-949-33

Query Match 100.0%; Score 24; DB 4; Length 72;  
Best Local Similarity 100.0%; Pred. No. 46; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
Db 14 SMRER 18  
|||||

## RESULT 7

US-09-270-767-32846  
Sequence 32846, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 32846  
LENGTH: 146  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-32846

Query Match 100.0%; Score 24; DB 4; Length 146;  
Best Local Similarity 100.0%; Pred. No. 93; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
Db 138 SMRER 142  
|||||

## RESULT 8

US-09-270-767-48063  
Sequence 48063, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 48063  
LENGTH: 146  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-48063

Query Match 100.0%; Score 24; DB 4; Length 146;  
Best Local Similarity 100.0%; Pred. No. 93; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
Db 138 SMRER 142  
|||||

## RESULT 9

US-08-469-537A-54  
Sequence 54, Application US/08469537A  
Patent No. 5843749  
GENERAL INFORMATION:  
APPLICANT: Maisonnier, et al.  
TITLE OF INVENTION: EHK AND ROR TYROSINE KINASES  
TITLE OF INVENTION: KINASES  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill River Road  
CITY: Tarrytown  
STATE: NY  
COUNTRY: U.S.A.  
ZIP: 10591  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,537A  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/406,247  
FILING DATE: 17-MAR-1995  
APPLICATION NUMBER: USSN 08/144,992  
FILING DATE: 28-OCT-1993  
APPLICATION NUMBER: USSN 07/736,559  
FILING DATE: 26-JUL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Kempler, Ph.D., Gail M  
REGISTRATION NUMBER: 32,143  
REFERENCE/DOCKET NUMBER: REG 070C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 914-345-7400  
TELEFAX: 914-345-7721  
TELEX:  
INFORMATION FOR SEQ ID NO: 54:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 266 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-469-537A-54

Query Match 100.0%; Score 24; DB 2; Length 266;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 44 SMRER 48

## RESULT 10

US-07-857-224B-69  
Sequence 69, Application US/07857224B  
Patent No. 5958784  
GENERAL INFORMATION:  
APPLICANT: Berner, Steven A.  
TITLE OF INVENTION: Predicting Folded Structures of Proteins  
NUMBER OF SEQUENCES: 114  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Steven A. Berner  
STREET: Hadlaubstrasse 151  
CITY: Zurich  
STATE: none  
COUNTRY: Switzerland  
ZIP: (note: this is an international post code) CH-8092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage  
COMPUTER: Apple Macintosh  
OPERATING SYSTEM: Macintosh 7.0  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/857,224B  
FILING DATE: 03/25/92  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA: none  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (International) 41 1 632 2830  
TELEFAX: (International) 41 1 262 2437  
TELEX: none  
INFORMATION FOR SEQ ID NO: 69:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 269  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE:

DESCRIPTION: protein  
ORIGINAL SOURCE:  
ORGANISM: human  
FEATURE: Protein kinase; Table 8 Column 79  
PUBLICATION INFORMATION:  
AUTHORS:  
AUTHORS: Hanks, S. K.  
AUTHORS: Quinn, A. M.  
AUTHORS: Hunter, T.  
TITLE: The protein kinase family  
JOURNAL: Science  
VOLUME: 241  
PAGES: 42-52  
DATE: 1988  
US-07-857-224B-69

Query Match 100.0%; Score 24; DB 2; Length 269;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 44 SMRER 48

## RESULT 11

US-08-469-537A-75  
Sequence 75, Application US/08469537A  
Patent No. 5843749  
GENERAL INFORMATION:  
APPLICANT: Maisompierre, et al.  
TITLE OF INVENTION: EHK AND ROR TYROSINE  
TITLE OF INVENTION: KINASES  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill River Road  
CITY: Tarrytown  
STATE: NY  
COUNTRY: U.S.A.  
ZIP: 10591  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,537A  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/406,247  
FILING DATE: 17-MAR-1995  
APPLICATION NUMBER: USSN 08/144,992  
FILING DATE: 28-OCT-1993  
APPLICATION NUMBER: USSN 07/736,559  
FILING DATE: 26-JUL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Kempler, Ph.D., Gail M  
REGISTRATION NUMBER: 32,143  
REFERENCE/DOCKET NUMBER: REG 070C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 914-345-7400  
TELEFAX: 914-345-7721  
TELEX:  
INFORMATION FOR SEQ ID NO: 75:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-469-537A-75

Query Match 100.0%; Score 24; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 2.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 105 SMRER 109

## RESULT 12

US-08-857-076-107  
; Sequence 107, Application US/08857076C  
; Patent No. 6225120

; GENERAL INFORMATION:  
; APPLICANT: Ruvkun, Gary

; APPLICANT: Kimura, Koutarou  
; APPLICANT: Patterson, Garth

; APPLICANT: Ogg, Scott  
; APPLICANT: Paradis, Suzanne

; APPLICANT: Tissenbaum, Heidi  
; APPLICANT: Morris, Jason

; APPLICANT: Kowsek, Allison  
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR

; FILE REFERENCE: 00786/351001  
; CURRENT APPLICATION NUMBER: US/08/857,076C

; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 107  
; LENGTH: 370

; TYPE: PRT  
; ORGANISM: Homo sapiens

US-08-857-076-107

Query Match 100.0%; Score 24; DB 3; Length 370;  
Best Local Similarity 100.0%; Pred. No. 2.3e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 102 SMRER 106

## RESULT 13

US-09-270-767-59453  
; Sequence 59453, Application US/09270767  
; Patent No. 6703491

; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 59453  
; LENGTH: 397

; TYPE: PRT  
; ORGANISM: Drosophila melanogaster

US-09-270-767-59453

Query Match 100.0%; Score 24; DB 4; Length 397;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 216 SMRER 220

## RESULT 14

US-09-270-767-61266  
; Sequence 61266, Application US/09270767  
; Patent No. 6703491

; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 61266  
; LENGTH: 398

; TYPE: PRT  
; ORGANISM: Drosophila melanogaster

US-09-270-767-61266

Query Match 100.0%; Score 24; DB 4; Length 398;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 217 SMRER 221

## RESULT 15

US-09-489-039A-11971  
; Sequence 11971, Application US/09489039A  
; Patent No. 6610836

; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: 2709.2004001

; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 11971

; LENGTH: 484  
; TYPE: PRT

; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-11971

Query Match 100.0%; Score 24; DB 4; Length 484;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 268 SMRER 272

## RESULT 16

US-09-252-991A-26977  
; Sequence 26977, Application US/09252991A  
; Patent No. 6551795

; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26977

; LENGTH: 561

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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26977

Query Match      100.0%; Score 24; DB 4; Length 561;
Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      181 SMRER 185

RESULT 17
US-09-034-177-1
; Sequence 1, Application US/09034177
; Patent No. 6127146
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: HUMAN FIBROUS PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/034,177
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0486 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 582 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: OVARUT01
; CLONE: 2257563
US-09-034-177-1

Query Match      100.0%; Score 24; DB 3; Length 582;
Best Local Similarity 100.0%; Pred. No. 3.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      459 SMRER 463

RESULT 18
US-09-270-767-45747
; Sequence 45747, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45747
; LENGTH: 1146
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-45747

Query Match      100.0%; Score 24; DB 4; Length 1146;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      880 SMRER 884

RESULT 19
US-09-270-767-4
; Sequence 4, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1220
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-4

Query Match      100.0%; Score 24; DB 4; Length 1220;
Best Local Similarity 100.0%; Pred. No. 7.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      954 SMRER 958

RESULT 20
US-09-270-767-44045
; Sequence 44045, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44045
; LENGTH: 1220
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-44045

Query Match      100.0%; Score 24; DB 4; Length 1220;
Best Local Similarity 100.0%; Pred. No. 7.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 SMRER 5  
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Db 954 SMRER 958

## RESULT 21

US-09-715-962-4  
; Sequence 4, Application US/09715962  
; Patent No. 6794149  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Aktiengesellschaft  
; TITLE OF INVENTION: GABA-B-Rezeptoren  
; FILE REFERENCE: Le A 34 074  
; CURRENT APPLICATION NUMBER: US/09/715.962  
; CURRENT FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: DE 199 55 408.0  
; PRIOR FILING DATE: 1999-11-18  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 1220  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-715-962-4

Query Match 100.0%; Score 24; DB 4; Length 1220;  
Best Local Similarity 100.0%; Pred. No. 7.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 954 SMRER 958

## RESULT 22

US-08-249-687C-2  
; Sequence 2, Application US/08249687C  
; Patent No. 5942412  
; GENERAL INFORMATION:  
; APPLICANT: PRAGER, DIANE  
; APPLICANT: HELMED, SHLOMO  
; TITLE OF INVENTION: POLYNUCLEIC ACID ENCODING  
; TITLE OF INVENTION: VARIANT INSULIN-LIKE GROWTH FACTOR I RECEPTOR BETA  
; TITLE OF INVENTION: SUBUNIT & RECEPTOR  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pretty, Schroeder & Poplawski  
; STREET: 444 South Flower St., 19th Floor  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/249.687C  
; FILING DATE: 26-MAY-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/044.540  
; FILING DATE: 06-APR-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Basile, Lena  
; REGISTRATION NUMBER: P-44,026  
; REFERENCE/DOCKET NUMBER: P07 32349  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 213-622-7700  
; TELEFAX: 213-489-4210  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1367 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-249-687C-2

Query Match 100.0%; Score 24; DB 2; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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Db 1040 SMRER 1044

## RESULT 23

US-08-625-819-2  
; Sequence 2, Application US/08625819  
; Patent No. 5958872  
; GENERAL INFORMATION:  
; APPLICANT: O'CONNOR, Rosemary; and  
; APPLICANT: BASERGA, Renato L.  
; TITLE OF INVENTION: ACTIVE SURVIVAL DOMAINS OF IGF-IR  
; TITLE OF INVENTION: AND METHODS OF USE  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: HALE and DORR LLP  
; STREET: 1455 Pennsylvania Avenue, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/625.819  
; FILING DATE: 01-APR-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: WIXON, Henry N.  
; REGISTRATION NUMBER: 32,073  
; REFERENCE/DOCKET NUMBER: 104322.162  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 942-8459  
; TELEFAX: (202) 942-8484  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1367 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-625-819-2

Query Match 100.0%; Score 24; DB 2; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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Db 1040 SMRER 1044

## RESULT 24

US-08-746-559A-2  
; Sequence 2, Application US/08746559A  
; Patent No. 6084085  
; GENERAL INFORMATION:  
; APPLICANT: Renato Baserga

APPLICANT: Mariana Resnicoff  
APPLICANT: Consuelo D'Ambrosio  
APPLICANT: Andre Ferber  
TITLE OF INVENTION: Method of Inducing Resistance to Tumor Growth  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6084085ris LLP  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19103

COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
COMPUTER: IBM PS/2

OPERATING SYSTEM: PC-DOS  
SOFTWARE: WORDPERFECT 6.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/746,559A

FILING DATE: 13-NOV-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/006,699

FILING DATE: 14-NOV-1995

ATTORNEY/AGENT INFORMATION:

NAME: Paul K. Legaard

REGISTRATION NUMBER: 38,534

REFERENCE/DOCKET NUMBER: TJU-2063

TELECOMMUNICATION INFORMATION:

TELEPHONE: (215) 568-3100

TELEFAX: (215) 568-3439

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1367 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-08-746-559A-2

Query Match 100.0%; Score 24; DB 3; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 25

US-08-864-641B-18

Sequence 19, Application US/08864641B

Patent No. 6312684

GENERAL INFORMATION:

APPLICANT: Baserga, Renato

APPLICANT: Abraham, David

APPLICANT: Resnicoff, Mariana

TITLE OF INVENTION: Method Of Inducing Resistance To Tumor Growth

FILE REFERENCE: TJU2137

CURRENT APPLICATION NUMBER: US/08/864,641B

CURRENT FILING DATE: 1997-05-29

PRIOR APPLICATION NUMBER: 08/340,732

PRIOR FILING DATE: 1994-11-16

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PatentIn version 3.0

SEQ ID NO 18

LENGTH: 1367

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: No. 6312684e1 Sequence

US-08-864-641B-18

Query Match 100.0%; Score 24; DB 3; Length 1367;

Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 26

US-09-343-551-2

Sequence 2, Application US/09343551A

Patent No. 6596473

GENERAL INFORMATION:

APPLICANT: O'CONNOR, Rosemary; and

BASERGA, Renato L.

TITLE OF INVENTION: ACTIVE SURVIVAL DOMAINS OF IGF-IR

AND METHODS OF USE

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: HALE and DORR LLP

STREET: 1455 Pennsylvania Avenue, N.W.

CITY: Washington

STATE: DC

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/343,551A

FILING DATE: 30-Jun-1999

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/625,819

FILING DATE: 01-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: WIXON, Henry N.

REGISTRATION NUMBER: 32,073

REFERENCE/DOCKET NUMBER: 104322.162 DIV

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 942-8459

TELEFAX: (202) 942-8484

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1367 base pairs

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-343-551-2

Query Match 100.0%; Score 24; DB 4; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

Search completed: February 3, 2005, 09:36:37  
Job time : 38 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2005, 09:36:11 : Search time 146 Seconds  
(without alignments)  
12.373 Million cell updates/sec

Title: US-09-998-491A-4

Perfect score: 24

Sequence: 1 SMRER 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 87

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 400 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*

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6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*

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20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	24	100.0	5	16	US-10-475-281-4
3	24	100.0	17	10	US-09-998-491-7
4	24	100.0	17	16	US-10-475-281-7
5	24	100.0	42	15	US-10-424-599-193153
6	24	100.0	54	9	US-09-864-761-41636
7	24	100.0	55	17	US-10-425-115-218551
8	24	100.0	60	16	US-10-437-963-128636
9	24	100.0	64	15	US-10-424-599-202653
10	24	100.0	66	16	US-10-437-963-177469
11	24	100.0	71	17	US-10-425-115-374385
12	24	100.0	72	9	US-09-827-949-33
13	24	100.0	74	17	US-10-425-115-200179
14	24	100.0	77	24	Sequence 4, Appli
15	24	100.0	77	24	Sequence 4, Appli
16	24	100.0	77	24	Sequence 7, Appli
17	24	100.0	77	24	Sequence 7, Appli
18	24	100.0	78	24	Sequence 7, Appli
19	24	100.0	78	24	Sequence 193153,
20	24	100.0	78	24	Sequence 41636, A
21	24	100.0	80	24	Sequence 218551,
22	24	100.0	81	24	Sequence 128636,
23	24	100.0	82	24	Sequence 202653,
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25	24	100.0	84	24	Sequence 374385,
26	24	100.0	85	24	Sequence 33, Appli
27	24	100.0	86	24	Sequence 200179,

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Sequence 210221,  
Sequence 263213,  
Sequence 357263,  
Sequence 220634,  
Sequence 304215,  
Sequence 302554,  
Sequence 205010,  
Sequence 164466,  
Sequence 367033,  
Sequence 227742,  
Sequence 193740,  
Sequence 181487,  
Sequence 52180, A  
Sequence 42174, A  
Sequence 35864, A  
Sequence 4428, Ap  
Sequence 7186, Ap  
Sequence 52132, A  
Sequence 37058, A  
Sequence 4881, Ap  
Sequence 7639, Ap  
Sequence 35, Appl  
Sequence 51288, A  
Sequence 31, Appl  
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Sequence 15, Appl  
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Sequence 76228, A  
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Sequence 156872,  
Sequence 180766,  
Sequence 195111,  
Sequence 47, Appl  
Sequence 60, Appl  
Sequence 12, Appl  
Sequence 10, Appl  
Sequence 54, Appl  
Sequence 50, Appl  
Sequence 120, App  
Sequence 226, App  
Sequence 120, App  
Sequence 19, Appl  
Sequence 1, Appl1  
Sequence 98, Appl  
Sequence 116, App  
Sequence 2170, Ap

87 24 100.0 3192 14 US-10-132-134-10 Sequence 10, Appl

ALIGNMENTS

RESULT 1  
US-09-998-491-4  
; Sequence 4, Application US/09998491  
; Publication No. US20030166529A1  
; GENERAL INFORMATION:  
; APPLICANT: Mileusnic, Radmilla  
; APPLICANT: Rose, Stephen Peter Russell  
; TITLE OF INVENTION: Polypeptides and their Uses  
; FILE REFERENCE: 3578-120  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: GB 0109558.7  
; PRIOR FILING DATE: 2001-08-07  
; PRIOR APPLICATION NUMBER: GB 0120084  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 5  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: 5-mer polypeptide  
US-09-998-491-4

Query Match 100.0%; Score 24; DB 10; Length 5;  
Best Local Similarity 100.0%; Pred. No. 1.5e+06;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SMRER 5  
Db 1 SMRER 5

RESULT 2  
US-10-475-281-4  
; Sequence 4, Application US/10475281  
; Publication No. US20040106552A1  
; GENERAL INFORMATION:  
; APPLICANT: The Open University  
; APPLICANT: Rose, Stephen Peter Russell  
; APPLICANT: Mileusnic, Radmilla  
; TITLE OF INVENTION: Polypeptides, derivatives and uses thereof  
; FILE REFERENCE: RA/P301588WO  
; CURRENT FILING DATE: 2003-10-16  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: GB 0109558.7  
; PRIOR FILING DATE: 2001-08-17  
; PRIOR APPLICATION NUMBER: GB 0120084.9  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: US 09/998491  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: GB 0207387.2  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 5  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: 5-mer  
; OTHER INFORMATION: polypeptide  
US-10-475-281-4

Query Match 100.0%; Score 24; DB 16; Length 5;  
Best Local Similarity 100.0%; Pred. No. 1.5e+06;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SMRER 5  
Db 1 SMRER 5

RESULT 3  
US-09-998-491-7  
; Sequence 7, Application US/09998491  
; Publication No. US20030166529A1  
; GENERAL INFORMATION:  
; APPLICANT: Mileusnic, Radmilla  
; APPLICANT: Rose, Stephen Peter Russell  
; TITLE OF INVENTION: Polypeptides and their Uses  
; FILE REFERENCE: 3578-120  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: GB 0109558.7  
; PRIOR FILING DATE: 2001-08-07  
; PRIOR APPLICATION NUMBER: GB 0120084  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: 16-mer polypeptide  
US-09-998-491-7

Query Match 100.0%; Score 24; DB 10; Length 17;  
Best Local Similarity 100.0%; Pred. No. 58;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SMRER 5  
Db 4 SMRER 8

RESULT 4  
US-10-475-281-7  
; Sequence 7, Application US/10475281  
; Publication No. US20040106552A1  
; GENERAL INFORMATION:  
; APPLICANT: The Open University  
; APPLICANT: Rose, Stephen Peter Russell  
; APPLICANT: Mileusnic, Radmilla  
; TITLE OF INVENTION: Polypeptides, derivatives and uses thereof  
; FILE REFERENCE: RA/P301588WO  
; CURRENT FILING DATE: 2003-10-16  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: GB 0109558.7  
; PRIOR FILING DATE: 2001-08-17  
; PRIOR APPLICATION NUMBER: GB 0120084.9  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: US 09/998491  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: GB 0207387.2  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: 17-mer  
; OTHER INFORMATION: polypeptide  
US-10-475-281-7

Query Match 100.0%; Score 24; DB 16; Length 17;

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Best Local Similarity 100.0%; Pred. No. 58;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5
    |||||
Db 4 SMRER 8

RESULT 5
US-10-424-599-193153
; Sequence 193153, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 193153
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_16440C.1.pep
US-10-424-599-193153

Query Match 100.0%; Score 24; DB 15; Length 42;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5
    |||||
Db 20 SMRER 24

RESULT 6
US-09-864-761-41636
; Sequence 41636, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecmca-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665

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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 41636
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO ALL21889.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.97
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.3
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2
; OTHER INFORMATION: SWISSPROT HIT: P14585, EVALUATE 3.50e+00
; OTHER INFORMATION: EST_HUMAN HIT: A1820688.1, EVALUATE 4.00e-16
US-09-864-761-41636

Query Match 100.0%; Score 24; DB 9; Length 54;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5
    |||||
Db 18 SMRER 22

RESULT 7
US-10-425-115-218551
; Sequence 218551, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 218551
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_130912C.1.pep
US-10-425-115-218551

Query Match 100.0%; Score 24; DB 17; Length 55;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

```

```
Db      14 SMRER 18
|||||
RESULT 8
US-10-437-963-128636
; Sequence 128636, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 128636
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(60)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_30972C.1.pep
US-10-437-963-128636

Query Match      100.0%; Score 24; DB 16; Length 60;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
|||||
Db      32 SMRER 36

RESULT 9
US-10-424-599-202653
; Sequence 202653, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 202653
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Glycine max
; NAME/KEY: unsure
; LOCATION: (1)..(64)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_2501C.1.pep
US-10-424-599-202653

Query Match      100.0%; Score 24; DB 15; Length 64;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
|||||
Db      13 SMRER 17

RESULT 10
US-10-437-963-177469
; Sequence 177469, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 177469
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(66)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_75117C.1.pep
US-10-437-963-177469

Query Match      100.0%; Score 24; DB 16; Length 66;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
|||||
Db      50 SMRER 54

RESULT 11
US-10-425-115-347385
; Sequence 347385, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 347385
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Zea mays
; NAME/KEY: unsure
; LOCATION: (1)..(71)
; OTHER INFORMATION: Clone ID: MRT4577_7997C.1.pep
US-10-425-115-347385

Query Match      100.0%; Score 24; DB 17; Length 71;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 SMRER 5  
|||||  
Db 47 SMRER 51

RESULT 12  
US-09-827-949-33  
; Sequence 33, Application US/09827949  
; Patent No. US20010021505A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, Stephan W.  
; APPLICANT: Look, A. Thomas  
; TITLE OF INVENTION: ALK Protein Tyrosine Kinase/Receptor and Ligands Thereof  
; FILE REFERENCE: 0656.0400004  
; CURRENT APPLICATION NUMBER: US/09/827,949  
; CURRENT FILING DATE: 2001-04-09  
; PRIOR APPLICATION NUMBER: US 09/670,827  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 09/100,089  
; PRIOR FILING DATE: 1998-06-19  
; PRIOR APPLICATION NUMBER: US 08/542,363  
; PRIOR FILING DATE: 1995-10-12  
; PRIOR APPLICATION NUMBER: US 08/160,861  
; PRIOR FILING DATE: 1993-12-03  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 33  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-827-949-33

Query Match 100.0%; Score 24; DB 9; Length 72;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
|||||  
Db 14 SMRER 18

RESULT 13  
US-10-425-115-200179  
; Sequence 200179, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 200179  
; LENGTH: 74  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(74)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_114151C.1.pep  
US-10-425-115-200179

Query Match 100.0%; Score 24; DB 17; Length 74;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
|||||  
Db 66 SMRER 70

RESULT 14  
US-10-424-599-145709  
; Sequence 145709, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 145709  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(77)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_102594C.1.pep  
US-10-424-599-145709

Query Match 100.0%; Score 24; DB 15; Length 77;  
Best Local Similarity 100.0%; Pred. No. 2.6e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5  
|||||  
Db 72 SMRER 76

RESULT 15  
US-10-425-115-210221  
; Sequence 210221, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 210221  
; LENGTH: 82  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(82)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_123316C.1.pep  
US-10-425-115-210221

Query Match 100.0%; Score 24; DB 17; Length 82;  
Best Local Similarity 100.0%; Pred. No. 2.7e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 5; Conservative 0;

Qy 1 SMRER 5

Db 4 SMRER 8  
|||||

RESULT 16  
US-10-425-115-263213  
; Sequence 263213, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 263213  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(86)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_171662C.1.pep  
US-10-425-115-263213

Query Match 100.0%; Score 24; DB 17; Length 86;  
Best Local Similarity 100.0%; Pred. No. 2.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||

Db 18 SMRER 22

RESULT 17  
US-10-425-115-357263  
; Sequence 357263, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 357263  
; LENGTH: 94  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(94)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_88995C.1.pep  
US-10-425-115-357263

Query Match 100.0%; Score 24; DB 17; Length 94;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||

Db 4 SMRER 8

RESULT 18  
US-10-424-599-220634  
; Sequence 220634, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 220634  
; LENGTH: 97  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_41263C.1.pep  
US-10-424-599-220634

Query Match 100.0%; Score 24; DB 15; Length 97;  
Best Local Similarity 100.0%; Pred. No. 3.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||

Db 54 SMRER 58

RESULT 19  
US-10-425-115-304215  
; Sequence 304215, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 304215  
; LENGTH: 98  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_40515C.1.pep  
US-10-425-115-304215

Query Match 100.0%; Score 24; DB 17; Length 98;  
Best Local Similarity 100.0%; Pred. No. 3.3e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||

Db 69 SMRER 73

RESULT 20  
US-10-425-115-302554  
; Sequence 302554, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 302554  
; LENGTH: 102  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_39002C.1.pap  
US-10-425-115-302554

Query Match 100.0%; Score 24; DB 17; Length 102;  
Best Local Similarity 100.0%; Pred. No. 3.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 84 SMRER 88

RESULT 21  
US-10-424-599-205010  
; Sequence 205010, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J  
; APPLICANT: Kovalic, David K  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 205010  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_27151C.1.pap  
US-10-424-599-205010

Query Match 100.0%; Score 24; DB 15; Length 109;  
Best Local Similarity 100.0%; Pred. No. 3.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 17 SMRER 21

RESULT 22  
US-10-437-963-164466  
; Sequence 164466, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 164466  
; LENGTH: 123  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_63362C.1.pap  
US-10-437-963-164466

Query Match 100.0%; Score 24; DB 16; Length 123;  
Best Local Similarity 100.0%; Pred. No. 4.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 50 SMRER 54

RESULT 23  
US-10-425-115-367033  
; Sequence 367033, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 367033  
; LENGTH: 124  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_97901C.1.pap  
US-10-425-115-367033

Query Match 100.0%; Score 24; DB 17; Length 124;  
Best Local Similarity 100.0%; Pred. No. 4.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 70 SMRER 74

RESULT 24  
US-10-425-115-227742  
; Sequence 227742, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 227742  
; LENGTH: 128  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:

OTHER INFORMATION: Clone ID: MRT4577\_139297C.1.pap  
US-10-425-115-227742

Query Match 100.0%; Score 24; DB 17; Length 128;  
Best Local Similarity 100.0%; Pred. No. 4.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 112 SMRER 116  
|||||

## RESULT 25

US-10-424-599-193740  
; Sequence 193740, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 193740  
; LENGTH: 147  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_16973C.1.pap  
US-10-424-599-193740

Query Match 100.0%; Score 24; DB 15; Length 147;  
Best Local Similarity 100.0%; Pred. No. 4.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 33 SMRER 37  
|||||

## RESULT 26

US-10-424-599-181487  
; Sequence 181487, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 181487  
; LENGTH: 156  
; TYPE: PRT  
; ORGANISM: Glycine max  
; NAME/KEY: unsure  
; LOCATION: (1)..(156)  
; FEATURE:  
; OTHER INFORMATION: unsure at all Xaa locations  
US-10-424-599-181487

Query Match 100.0%; Score 24; DB 15; Length 156;  
Best Local Similarity 100.0%; Pred. No. 5.2e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 138 SMRER 142  
|||||

## RESULT 27

US-10-282-122A-52180  
; Sequence 52180, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 52180  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Clostridium botulinum  
US-10-282-122A-52180

Query Match 100.0%; Score 24; DB 15; Length 172;  
Best Local Similarity 100.0%; Pred. No. 5.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 131 SMRER 135  
|||||

## RESULT 28

US-10-767-701-42174  
; Sequence 42174, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua



; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; PRIOR FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 42174  
; LENGTH: 188  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C25791\_1.pcp  
US-10-767-701-42174

Query Match 100.0%; Score 24; DB 16; Length 188;  
Best Local Similarity 100.0%; Pred. No. 6.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 125 SMRER 129

## RESULT 29

US-09-864-761-35864  
; Sequence 35864, Application US/09864761  
; Patent No. US20020048763A1

; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharon G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng

; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

; FILE REFERENCE: Aecomica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23

; PRIOR APPLICATION NUMBER: US 60/180,312

; PRIOR FILING DATE: 2000-02-04

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/632,366

; PRIOR FILING DATE: 2000-08-03

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 09/608,408

; PRIOR FILING DATE: 2000-06-30

; PRIOR APPLICATION NUMBER: US 09/774,203

; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 35864  
; LENGTH: 221  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AL022238.1  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.9  
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 3.6  
; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 5.1  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 6.3  
; OTHER INFORMATION: EXPRESSED IN HEAT, SIGNAL = 5.8  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 8.5  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.9  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4.3  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 7.8  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 5.1  
; OTHER INFORMATION: EST HUMAN HIT: BE311634.1, EVALU8 9.00e-73  
; OTHER INFORMATION: SWISSPROT HIT: Q06418, EVALU8 1.20e-01  
US-09-864-761-35864

Query Match 100.0%; Score 24; DB 9; Length 221;  
Best Local Similarity 100.0%; Pred. No. 7.3e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 134 SMRER 138

## RESULT 30

US-10-369-493-4428  
; Sequence 4428, Application US/10369493  
; Publication No. US20030233675A1

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.

; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 4428

; LENGTH: 240

; TYPE: PRT

; ORGANISM: Burkholderia fungorum

US-10-369-493-4428

Query Match 100.0%; Score 24; DB 14; Length 240;  
Best Local Similarity 100.0%; Pred. No. 7.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 120 SMRER 124

## RESULT 31

US-10-369-493-7186

; Sequence 7186, Application US/10369493

; Publication No. US20030233675A1

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; PRIOR FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 7186  
; LENGTH: 240  
; TYPE: PRT  
; ORGANISM: Burkholderia cepacia  
US-10-369-493-7186

Query Match 100.0%; Score 24; DB 14; Length 240;  
Best Local Similarity 100.0%; Pred. No. 7.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 120 SMRER 124

RESULT 32  
US-10-425-114-52132  
; Sequence 52132, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; PRIOR FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 52132  
; LENGTH: 271  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB4071-001-A1\_FLI.pep  
US-10-425-114-52132

Query Match 100.0%; Score 24; DB 15; Length 271;  
Best Local Similarity 100.0%; Pred. No. 8.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 38 SMRER 42

RESULT 33  
US-10-425-114-37058  
; Sequence 37058, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 37058  
; LENGTH: 277  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB3180-011-D7\_FLI.pep  
US-10-425-114-37058

Query Match 100.0%; Score 24; DB 15; Length 277;  
Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 49 SMRER 53

RESULT 34  
US-10-369-493-4881  
; Sequence 4881, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 4881  
; LENGTH: 287  
; TYPE: PRT  
; ORGANISM: Burkholderia fungorum  
US-10-369-493-4881

Query Match 100.0%; Score 24; DB 14; Length 287;  
Best Local Similarity 100.0%; Pred. No. 9.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 92 SMRER 96

RESULT 35  
US-10-369-493-7639  
; Sequence 7639, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 7639  
; LENGTH: 287

;  
; TYPE: PRT  
; ORGANISM: Burkholderia cepacia  
US-10-369-493-7639

Query Match 100.0%; Score 24; DB 14; Length 287;  
Best Local Similarity 100.0%; Pred. No. 9.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 92 SMRER 96

## RESULT 36

US-10-021-425-35  
; Sequence 35, Application US/10021425  
; Publication No. US20030148420A1  
; GENERAL INFORMATION:

; APPLICANT: Suzanne L. Bolten  
; APPLICANT: Alan M. Easton  
; APPLICANT: Leslie C. Engel  
; APPLICANT: Dean M. Messing  
; APPLICANT: John S. Ng  
; APPLICANT: Beverly A. Reitz  
; APPLICANT: Scott A. Vaccaro  
; APPLICANT: Mark C. Walker  
; APPLICANT: Ping T. Wang  
; APPLICANT: Robin A. Weinberg  
; TITLE OF INVENTION: Aspergillus ochraceus 11 alpha  
; FILE REFERENCE: S03196-00-US  
; CURRENT APPLICATION NUMBER: US/10/021,425  
; CURRENT FILING DATE: 2001-10-30  
; PRIOR APPLICATION NUMBER: USSN 60/244,300  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 35  
; LENGTH: 294  
; TYPE: PRT

US-10-021-425-35  
; ORGANISM: Fusarium oxysporum CAA57874

Query Match 100.0%; Score 24; DB 14; Length 294;  
Best Local Similarity 100.0%; Pred. No. 9.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 33 SMRER 37

## RESULT 37

US-10-425-114-51288  
; Sequence 51288, Application US/10425114  
; Publication No. US2004003488A1  
; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 51288  
; LENGTH: 294  
; TYPE: PRT  
; ORGANISM: Zea mays

;  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB148-002-B10\_FLI.pep  
US-10-425-114-51288

Query Match 100.0%; Score 24; DB 15; Length 294;  
Best Local Similarity 100.0%; Pred. No. 9.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 12 SMRER 16

## RESULT 38

US-10-377-268-31  
; Sequence 31, Application US/10377268  
; Publication No. US20040171062A1  
; GENERAL INFORMATION:

; APPLICANT: HIRTH, KLAUS-PETER  
; APPLICANT: MILBURN, MICHAEL VANCE  
; TITLE OF INVENTION: METHOD FOR THE DESIGN OF MOLECULAR SCAFFOLDS AND LIGANDS  
; FILE REFERENCE: 039363/0303  
; CURRENT APPLICATION NUMBER: US/10/377,268  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: 60/437,929  
; PRIOR FILING DATE: 2003-01-02  
; PRIOR APPLICATION NUMBER: 60/360,651  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: 60/411,398  
; PRIOR FILING DATE: 2002-09-16  
; PRIOR APPLICATION NUMBER: 60/412,341  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 31  
; LENGTH: 294  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-377-268-31

Query Match 100.0%; Score 24; DB 16; Length 294;  
Best Local Similarity 100.0%; Pred. No. 9.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 48 SMRER 52

## RESULT 39

US-10-900-856-38  
; Sequence 38, Application US/10900856  
; Publication No. US20050003473A1  
; GENERAL INFORMATION:

; APPLICANT: Bolten, Suzanne L  
; APPLICANT: Leslie, Engel C  
; APPLICANT: Dean, Messing M  
; APPLICANT: John, Ng S  
; APPLICANT: Beverly, Reitz A  
; APPLICANT: Scott, Vaccaro A  
; APPLICANT: Mark, Walker C  
; APPLICANT: Ping, Wang T  
; APPLICANT: Robin, Weinberg A  
; TITLE OF INVENTION: Aspergillus ochraceus 11 alpha hydroxylase and oxidoreductase  
; FILE REFERENCE: 3196  
; CURRENT APPLICATION NUMBER: US/10/900,856  
; CURRENT FILING DATE: 2004-07-28  
; NUMBER OF SEQ ID NOS: 68  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 38  
; LENGTH: 294  
; TYPE: PRT  
; ORGANISM: Fusarium oxysporum CAA57874

US-10-900-856-38

Query Match 100.0%; Score 24; DB 17; Length 294;  
Best Local Similarity 100.0%; Pred. No. 9.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 33 SMRER 37

RESULT 40

US-10-282-122A-52610  
; Sequence 52610, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 52610

; LENGTH: 295

; TYPE: PRT

; ORGANISM: Clostridium botulinum

US-10-282-122A-52610

Query Match 100.0%; Score 24; DB 15; Length 295;  
Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 149 SMRER 153

RESULT 41

US-10-664-421-29  
; Sequence 29, Application US/10664421

; Publication No. US20040142864A1  
; GENERAL INFORMATION:  
; APPLICANT: BREMER, RYAN  
; APPLICANT: IBRAHIM, PRABHA  
; APPLICANT: KUMAR, ABHINAV  
; APPLICANT: MANDIYAN, VALSAN  
; APPLICANT: MILBURN, MICHAEL V.  
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF PIM-1 KINASE  
; FILE REFERENCE: 039363/0703  
; CURRENT APPLICATION NUMBER: US/10/664,421  
; CURRENT FILING DATE: 2003-09-16  
; PRIOR APPLICATION NUMBER: 60/412,341  
; PRIOR FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: 60/411,398  
; PRIOR FILING DATE: 2002-09-16  
; NUMBER OF SEQ ID NOS: 169  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 29  
; LENGTH: 299

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: MOD\_RES

; LOCATION: (174)

; FEATURE:

; OTHER INFORMATION: Variable amino acid

; NAME/KEY: MOD\_RES

; LOCATION: (178)..(179)

; OTHER INFORMATION: Variable amino acid

US-10-664-421-29

Query Match

Best Local Similarity 100.0%; Score 24; DB 16; Length 299;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 53 SMRER 57

RESULT 42

US-10-425-115-214267

; Sequence 214267, Application US/10425115

; Publication No. US20040214272A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53222)B

; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 369326

; SEQ ID NO 214267

; LENGTH: 311

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: MRT4577\_12700C.1.pep

US-10-425-115-214267

Query Match

Best Local Similarity 100.0%; Score 24; DB 17; Length 311;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 78 SMRER 82

RESULT 43

```
US-10-425-115-267702
; Sequence 267702, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 267702
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_175749C.1.pep
US-10-425-115-267702

Query Match      100.0%; Score 24; DB 17; Length 343;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRR 5
Db      115 SMRR 119

RESULT 44
US-10-739-930-8002
; Sequence 8002, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 8002
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(346)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: ZENMA-23APR03-C346769_1.p
US-10-739-930-8002

Query Match      100.0%; Score 24; DB 17; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRR 5
Db      133 SMRR 137

RESULT 45
US-10-387-094-2
; Sequence 2, Application US/10387094
; Publication No. US20030215929A1
; GENERAL INFORMATION:
; APPLICANT: E. I. duPont de Nemours and Company, Inc.
; APPLICANT: Bramucci, Michael
; APPLICANT: Chen, Mario
; APPLICANT: Nagaraajan, Vasantha
```

```
; TITLE OF INVENTION: A Rhodococcus Gene Encoding Aldoxime Dehydratase
; FILE REFERENCE: CL2007 US NA
; CURRENT APPLICATION NUMBER: US/10/387,094
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/365,019
; PRIOR FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 2
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Rhodococcus erythropolis AN12
US-10-387-094-2

Query Match      100.0%; Score 24; DB 14; Length 353;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRR 5
Db      174 SMRR 178

RESULT 46
US-09-205-658-107
; Sequence 107, Application US/09205658
; Patent No. US20010029617A1
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Ogg, Scott
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-205-658-107

Query Match      100.0%; Score 24; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRR 5
Db      102 SMRR 106

RESULT 47
US-09-844-353A-107
; Sequence 107, Application US/09844353A
; Patent No. US20020037585A1
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Kimura, Koutarou
; APPLICANT: Patterson, Garth
; APPLICANT: Ogg, Scott
; APPLICANT: Paradis, Suzanne
; APPLICANT: Tissenbaum, Heidi
; APPLICANT: Morris, Jason
; APPLICANT: Kowsek, Allison
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-205-658-107

Query Match      100.0%; Score 24; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRR 5
Db      102 SMRR 106
```

```

; FILE REFERENCE: 00786/351005
; CURRENT APPLICATION NUMBER: US/09/844,353A
; CURRENT FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 08/857,076
; PRIOR FILING DATE: 1997-05-15
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-844-353A-107

```

```

Query Match      100.0%; Score 24; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 SMRR 5
Db      102 SMRR 106

```

## RESULT 48

```

US-09-963-693-107
; Sequence 107, Application US/09963693
; Publication No. US20030181364A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Ruvkun, Gary
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/963,693
; CURRENT FILING DATE: 2001-09-25

```

```

; PRIOR APPLICATION NUMBER: US/09/205,658
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: 08/857,076
; PRIOR FILING DATE: 1997-05-15
; PRIOR APPLICATION NUMBER: 08/888,534
; PRIOR FILING DATE: 1997-07-07
; PRIOR APPLICATION NUMBER: US98/10080
; PRIOR FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-963-693-107

```

```

Query Match      100.0%; Score 24; DB 10; Length 370;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 SMRR 5
Db      102 SMRR 106

```

## RESULT 49

```

US-10-282-122A-51700
; Sequence 51700, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant

```

```

; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 51700
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Clostridium acetobutylicum
US-10-282-122A-51700

```

```

Query Match      100.0%; Score 24; DB 15; Length 392;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 SMRR 5
Db      348 SMRR 352

```

## RESULT 50

```

US-10-378-393-5
; Sequence 5, Application US/10378393
; Publication No. US20030182668A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Bol, David K.
; APPLICANT: Carboni, Joan M.
; APPLICANT: Rowley, Ronald B.
; APPLICANT: Wong, Tai W.
; APPLICANT: Lee, Francis Y.
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMALS EXPRESSING CONSTITUTIVELY ACTIVATED
; FILE REFERENCE: D0254 NP
; CURRENT APPLICATION NUMBER: US/10/378,393

```

```

; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/360,889
; PRIOR FILING DATE: 2002-03-01
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-378-393-5

```

```

Query Match      100.0%; Score 24; DB 14; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 SMRER 5  
|||||  
Db 76 SMRER 80

RESULT 51  
US-10-437-963-125599  
; Sequence 125599, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 125599  
; LENGTH: 415  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(470)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_28227C.1.pap  
US-10-437-963-125599

Query Match 100.0%; Score 24; DB 16; Length 415;  
Best Local Similarity 100.0%; Pred. No. 1.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 126 SMRER 130

RESULT 52  
US-10-417-700A-15  
; Sequence 15, Application US/10417700A  
; Publication No. US20040033581A1  
; GENERAL INFORMATION:  
; APPLICANT: ECOPIA BIOSCIENCES INC.  
; APPLICANT: ZAZOPOULOS, Emmanuel  
; APPLICANT: STAFFA, Alfredo  
; APPLICANT: FARNET, Chris  
; TITLE OF INVENTION: Specialized dual condensation/epimerization domain in non-ribosomal  
; FILE REFERENCE: 3002-14US  
; CURRENT APPLICATION NUMBER: US/10/417,700A  
; CURRENT FILING DATE: 2003-04-17  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 15  
; LENGTH: 469  
; TYPE: PRT  
; ORGANISM: Actinoplanes sp.  
US-10-417-700A-15

Query Match 100.0%; Score 24; DB 15; Length 469;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 365 SMRER 369

RESULT 53  
US-10-437-963-129470  
; Sequence 129470, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 129470  
; LENGTH: 470  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(470)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_31723C.1.pap  
US-10-437-963-129470

Query Match 100.0%; Score 24; DB 16; Length 470;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 435 SMRER 439

RESULT 54  
US-10-282-122A-73090  
; Sequence 73090, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23

```

; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 73090
; TYPE: PRT
; LENGTH: 473
; ORGANISM: Salmonella paratyphi A
US-10-282-122A-73090

Query Match      100.0%; Score 24; DB 15; Length 473;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      257 SMRER 261

RESULT 55
US-09-815-242-13881
; Sequence 13881, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq For Windows Version 4.0
; SEQ ID NO 13881
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Salmonella typhi
US-09-815-242-13881

Query Match      100.0%; Score 24; DB 9; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      261 SMRER 265

US-10-282-122A-59695
; Sequence 59695, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55951
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55951

Query Match      100.0%; Score 24; DB 15; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      261 SMRER 265

RESULT 57
US-10-282-122A-59695
; Sequence 59695, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel

```



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; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59695
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-10-282-122A-59695

Query Match          100.0%; Score 24; DB 15; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      261 SMRER 265
      |||||

RESULT 58
US-10-282-122A-74898
; Sequence 74898, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
```

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; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 74898
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Salmonella typhimurium
US-10-282-122A-74898

Query Match          100.0%; Score 24; DB 15; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      261 SMRER 265
      |||||

RESULT 59
US-10-282-122A-76228
; Sequence 76228, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
```

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; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76228
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Salmonella typhi
US-10-282-122A-76228

Query Match      100.0%; Score 24; DB 15; Length 477;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
      |||||
Db      261 SMRER 265

RESULT 60
US-09-815-242-10288
; Sequence 10288, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011a
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10288
; LENGTH: 479
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-815-242-10288

Query Match      100.0%; Score 24; DB 9; Length 479;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
      |||||
Db      263 SMRER 267

RESULT 61
US-10-369-493-23541
; Sequence 23541, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Gao, Yongwei
; APPLICANT: Hinkie, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xiaofeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 23541
; LENGTH: 479
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-369-493-23541

Query Match      100.0%; Score 24; DB 14; Length 479;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
      |||||
Db      263 SMRER 267

RESULT 62
US-10-282-122A-56674
; Sequence 56674, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56674
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; LENGTH: 479  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-10-282-122A-56674

Query Match 100.0%; Score 24; DB 15; Length 479;  
Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 263 SMRER 267

## RESULT 63

US-10-437-963-175962  
; Sequence 175962, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 175962

; LENGTH: 540

; TYPE: PRT

; ORGANISM: Oryza sativa

; NAME/KEY: unsure

; LOCATION: (1)-(540)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Cione ID: PAT\_MRT4530\_73756C.1.pep  
US-10-437-963-175962

Query Match 100.0%; Score 24; DB 16; Length 540;  
Best Local Similarity 100.0%; Pred. No. 1.8e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 400 SMRER 404

## RESULT 64

US-10-437-963-131061  
; Sequence 131061, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 131061  
; LENGTH: 598  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Cione ID: PAT\_MRT4530\_33163C.1.pep  
US-10-437-963-131061

Query Match 100.0%; Score 24; DB 16; Length 598;  
Best Local Similarity 100.0%; Pred. No. 1.9e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 495 SMRER 499

## RESULT 65

US-10-369-493-2039

; Sequence 2039, Application US/10369493

; Publication No. US20030233675A1

## GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 2039

; LENGTH: 607

; TYPE: PRT

; ORGANISM: Schizosaccharomyces pombe

US-10-369-493-2039

Query Match 100.0%; Score 24; DB 14; Length 607;  
Best Local Similarity 100.0%; Pred. No. 2e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
|||||  
Db 381 SMRER 385

## RESULT 66

US-10-378-393-7

; Sequence 7, Application US/10378393

; Publication No. US20030182668A1

## GENERAL INFORMATION:

; APPLICANT: Bol, David K.  
; APPLICANT: Carboni, Joan M.  
; APPLICANT: Rowley, Ronald B.  
; APPLICANT: Wong, Tai W.  
; APPLICANT: Lee, Francis Y.

; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMALS EXPRESSING CONSTITUTIVELY ACTIVATED  
; TITLE OF INVENTION: TYROSINE KINASE RECEPTORS

; FILE REFERENCE: D0254 NP

; CURRENT APPLICATION NUMBER: US/10/378,393

; CURRENT FILING DATE: 2003-03-03

; PRIOR APPLICATION NUMBER: US 60/360,889

; PRIOR FILING DATE: 2002-03-01

; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 7

; LENGTH: 624

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-378-393-7

Query Match 100.0%; Score 24; DB 14; Length 624;  
Best Local Similarity 100.0%; Pred. No. 2e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 297 SMRER 301

RESULT 67

US-10-156-761-13212  
; Sequence 13212, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRO  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 13212  
; LENGTH: 642  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
US-10-156-761-13212

Query Match 100.0%; Score 24; DB 14; Length 642;  
Best Local Similarity 100.0%; Pred. No. 2.1e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 88 SMRER 92

RESULT 68

US-10-369-493-18290  
; Sequence 18290, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10/52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 18290  
; LENGTH: 695  
; TYPE: PRT  
; ORGANISM: Lactococcus lactis  
US-10-369-493-18290

Query Match 100.0%; Score 24; DB 14; Length 695;  
Best Local Similarity 100.0%; Pred. No. 2.3e+03;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 446 SMRER 450

RESULT 69

US-10-437-963-185340  
; Sequence 185340, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 185340  
; LENGTH: 718  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_82245C.1.pep  
US-10-437-963-185340

Query Match 100.0%; Score 24; DB 16; Length 718;  
Best Local Similarity 100.0%; Pred. No. 2.3e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 331 SMRER 335

RESULT 70

US-10-437-963-185337  
; Sequence 185337, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 185337  
; LENGTH: 744  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(744)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_82242C.1.pep  
US-10-437-963-185337

Query Match 100.0%; Score 24; DB 16; Length 744;  
Best Local Similarity 100.0%; Pred. No. 2.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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|  
Db 331 SMRER 335

RESULT 71  
US-10-437-963-156872  
; Sequence 156872, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 156872  
; LENGTH: 750  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_56499C.1.pap  
US-10-437-963-156872

Query Match 100.0%; Score 24; DB 16; Length 750;  
Best Local Similarity 100.0%; Pred. No. 2.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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|  
|  
Db 489 SMRER 493

RESULT 72  
US-10-437-963-180766  
; Sequence 180766, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 180766  
; LENGTH: 774  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_78105C.1.pap  
US-10-437-963-180766

Query Match 100.0%; Score 24; DB 16; Length 774;  
Best Local Similarity 100.0%; Pred. No. 2.5e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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|  
|  
Db 523 SMRER 527

RESULT 73  
US-10-437-963-195111  
; Sequence 195111, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 195111  
; LENGTH: 818  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)...(818)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_91091C.1.pap  
US-10-437-963-195111

Query Match 100.0%; Score 24; DB 16; Length 818;  
Best Local Similarity 100.0%; Pred. No. 2.6e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
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|  
|  
Db 15 SMRER 19

RESULT 74  
US-10-388-838-47  
; Sequence 47, Application US/10388838  
; Publication No. US20040180344A1  
; GENERAL INFORMATION:  
; APPLICANT: David W. Morris  
; APPLICANT: Marc Malandro  
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer  
; FILE REFERENCE: 529452001600  
; CURRENT APPLICATION NUMBER: US/10/388,838  
; CURRENT FILING DATE: 2003-03-14  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 47  
; LENGTH: 1150  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-388-838-47

Query Match 100.0%; Score 24; DB 16; Length 1150;  
Best Local Similarity 100.0%; Pred. No. 3.7e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5

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Db          818 SMRER 822
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RESULT 75
US-10-270-333-60
; Sequence 60, Application US/10270333
; Publication No. US20030092124A1
; GENERAL INFORMATION:
; APPLICANT: Cravchik, Anibal
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS
; FILE REFERENCE: CL000733CON
; CURRENT APPLICATION NUMBER: US/10/270,333
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/168,677
; PRIOR FILING DATE: 1999-12-03
; PRIOR APPLICATION NUMBER: 60/175,691
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/191,638
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 1221
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-60

Query Match          100.0%; Score 24; DB 14; Length 1221;
Best Local Similarity 100.0%; Pred. No. 3.9e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      955 SMRER 959
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RESULT 76
US-09-854-173A-12
; Sequence 12, Application US/09854173A
; Patent No. US20020146702A1
; GENERAL INFORMATION:
; APPLICANT: Vielkind, Juergen R.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULE ASSOCIATED WITH PROSTATE CANCER
; FILE REFERENCE: AND MELANOMA IMMUNODETECTION
; FILE REFERENCE: Research Corporation Tech., Inc.
; CURRENT APPLICATION NUMBER: US/09/854,173A
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 08/869,285
; PRIOR FILING DATE: 1999-02-22
; PRIOR APPLICATION NUMBER: 08/654,641
; PRIOR FILING DATE: 1996-05-28
; PRIOR APPLICATION NUMBER: 07/829,855
; PRIOR FILING DATE: 1992-01-31
; PRIOR APPLICATION NUMBER: 09/255,533
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 1234
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-854-173A-12

Query Match          100.0%; Score 24; DB 9; Length 1234;
Best Local Similarity 100.0%; Pred. No. 4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      1000 SMRER 1004
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RESULT 77
US-10-388-838-54
; Sequence 54, Application US/10388838
; Publication No. US20040180344A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/388,838
; CURRENT FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 1359
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-388-838-54

Query Match          100.0%; Score 24; DB 16; Length 1359;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      1032 SMRER 1036
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RESULT 78
US-10-388-838-50
; Sequence 50, Application US/10388838
; Publication No. US20040180344A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/388,838
; CURRENT FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 1360
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-388-838-50

Query Match          100.0%; Score 24; DB 16; Length 1360;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
Db      1033 SMRER 1037
|||||
RESULT 79
US-09-870-759-120
; Sequence 120, Application US/09870759
; Patent No. US20020177551A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 870759
; CURRENT APPLICATION NUMBER: US/09/870,759
; CURRENT FILING DATE: 2002-01-14
; PRIOR APPLICATION NUMBER: US 60/208,128
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
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; LENGTH: 1367
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-870-759-120

Query Match      100.0%; Score 24; DB 9; Length 1367;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      1040 SMRER 1044

RESULT 80
US-09-751-708A-120
; Sequence 120, Application US/09751708A
; Publication No. US20030157113A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 751708
; CURRENT APPLICATION NUMBER: US/09/751,708A
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/173,371
; PRIOR FILING DATE: 1999-12-28
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 1367
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-751-708A-120

Query Match      100.0%; Score 24; DB 10; Length 1367;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      1040 SMRER 1044

RESULT 81
US-10-177-293-226
; Sequence 226, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Gannavarpu, Manjula
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Mertens, Maureen
; APPLICANT: Myer, Vic
; APPLICANT: wang, Youzhen
; APPLICANT: Xu, Yongyao
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Monahan, John
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Baat Jr., Robert C.
; APPLICANT: Hortobagyi, Gabriel N.
; APPLICANT: Pusztai, Lajos
; APPLICANT: Meric, Funda
; APPLICANT: Sahin, Aysegul
; APPLICANT: Mills, Gordon B.
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
; FILE OF INVENTION: PREVENTION, AND THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-038
; CURRENT APPLICATION NUMBER: US/10/177,293
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,887
; PRIOR FILING DATE: 2001-06-21
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; PRIOR APPLICATION NUMBER: US 60/301,572
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/306,501
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/325,002
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/362,585
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 226
; LENGTH: 1367
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-177-293-226

Query Match      100.0%; Score 24; DB 14; Length 1367;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      1040 SMRER 1044

RESULT 82
US-10-443-466A-19
; Sequence 19, Application US/10443466A
; Publication No. US20040018191A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Yan
; APPLICANT: Pachter, Jonathan A
; APPLICANT: Halley, Judith
; APPLICANT: Greenberg, Robert
; APPLICANT: Leonard, Presta
; APPLICANT: Brams, Peter
; APPLICANT: Feingersh, Diane
; APPLICANT: Williams, Denise
; APPLICANT: Srinivasan, Mohan
; TITLE OF INVENTION: NEUTRALIZING HUMAN ANTI-IGFR ANTIBODY
; FILE REFERENCE: OC01533-K-US
; CURRENT APPLICATION NUMBER: US/10/443,466A
; CURRENT FILING DATE: 2003-05-22
; PRIOR APPLICATION NUMBER: 60/383,459
; PRIOR FILING DATE: 2002-05-24
; PRIOR APPLICATION NUMBER: 60/393,214
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: 60/436,254
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 1367
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-443-466A-19

Query Match      100.0%; Score 24; DB 15; Length 1367;
Best Local Similarity 100.0%; Pred. No. 4.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SMRER 5
Db      1040 SMRER 1044

RESULT 83
US-10-632-139-1
; Sequence 1, Application US/10632139
; Publication No. US20040142381A1
; GENERAL INFORMATION:
```

; APPLICANT: Hubbard, Stevan  
; APPLICANT: Miller, W. Todd  
; APPLICANT: Till, Jeffrey H.  
; APPLICANT: Faveluyukis, Svetlana  
; TITLE OF INVENTION: Methods for Designing IGF1 Receptor Inhibitors for Anti-Cancer  
; FILE REFERENCE: 1049-1-030N  
; CURRENT APPLICATION NUMBER: US/10/632,139  
; PRIOR FILING DATE: 2003-07-31  
; PRIOR APPLICATION NUMBER: 60/400,001  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1367  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-632-139-1

Query Match 100.0%; Score 24; DB 16; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 4.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 84  
US-10-365-352-98  
; Sequence 98, Application US/10365352  
; Publication No. US20040171149A1  
; GENERAL INFORMATION:  
; APPLICANT: Wraight, Christopher  
; APPLICANT: Werther, Georgier  
; APPLICANT: Dean, Nicholas  
; APPLICANT: Dobie, Kenneth  
; TITLE OF INVENTION: Modulation of insulin-like growth factor I receptor expression  
; FILE REFERENCE: 229752002500  
; CURRENT APPLICATION NUMBER: US/10/365,352  
; CURRENT FILING DATE: 2003-02-11  
; NUMBER OF SEQ ID NOS: 98  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 98  
; LENGTH: 1367  
; TYPE: PRT  
; ORGANISM: human  
US-10-365-352-98

Query Match 100.0%; Score 24; DB 16; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 4.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 85  
US-10-428-817A-116  
; Sequence 116, Application US/10428817A  
; Publication No. US20040214783A1  
; GENERAL INFORMATION:  
; APPLICANT: TERMAN, David S  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE  
; FILE REFERENCE: 38373-189118  
; CURRENT APPLICATION NUMBER: US/10/428,817A  
; CURRENT FILING DATE: 2003-05-05  
; PRIOR APPLICATION NUMBER: US 60/378,988  
; PRIOR FILING DATE: 2002-05-08  
; PRIOR APPLICATION NUMBER: US 60/389,366  
; PRIOR FILING DATE: 2002-06-15  
; PRIOR APPLICATION NUMBER: US 60/406,697

; PRIOR FILING DATE: 2002-08-28  
; PRIOR APPLICATION NUMBER: US 60/406,750  
; PRIOR FILING DATE: 2002-08-29  
; PRIOR APPLICATION NUMBER: US 60/415,310  
; PRIOR FILING DATE: 2002-10-01  
; PRIOR APPLICATION NUMBER: US 60/415,400  
; PRIOR FILING DATE: 2002-10-02  
; PRIOR APPLICATION NUMBER: US 60/438,686  
; NUMBER OF SEQ ID NOS: 224  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 116  
; LENGTH: 1367  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-428-817A-116

Query Match 100.0%; Score 24; DB 17; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 4.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 86  
US-10-276-774-2170  
; Sequence 2170, Application US/10276774  
; Publication No. US20040053245A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; APPLICANT: Tang, Y, Tom et al  
; TITLE OF INVENTION: No. US20040053245A1e1 Nucleic Acids and Polypeptides  
; FILE REFERENCE: 21272-030  
; CURRENT APPLICATION NUMBER: US/10/276,774  
; CURRENT FILING DATE: 2002-11-18  
; PRIOR APPLICATION NUMBER: 09/560,875  
; PRIOR FILING DATE: 2000-04-27  
; PRIOR APPLICATION NUMBER: 09/496,914  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 2700  
; SOFTWARE: Custom  
; SEQ ID NO 2170  
; LENGTH: 1376  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-276-774-2170

Query Match 100.0%; Score 24; DB 15; Length 1376;  
Best Local Similarity 100.0%; Pred. No. 4.4e+03;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1049 SMRER 1053

RESULT 87  
US-10-132-134-10  
; Sequence 10, Application US/10132134  
; Publication No. US20030171562A1  
; GENERAL INFORMATION:  
; APPLICANT: Farnet, Chris  
; APPLICANT: Yang, Xianshu  
; APPLICANT: Staffa, Alfredo  
; APPLICANT: Zazopoulos, Emmanuel  
; TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES  
; FILE REFERENCE: 3012-2US  
; CURRENT APPLICATION NUMBER: US/10/132,134  
; CURRENT FILING DATE: 2002-04-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn version 3.0



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; SEQ ID NO 10
; LENGTH: 3192
; TYPE: PRT
; ORGANISM: Streptomyces platensis subsp. rosaceus
US-10-132-134-10
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Query Match      100.0%; Score 24; DB 14; Length 3192;
Best Local Similarity 100.0%; Pred. No. 1e+04;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 SMRER 5
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Db      503 SMRER 507
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Search completed: February 3, 2005, 09:48:35  
Job time : 149 secs

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OM protein - protein search, using sw model

Run on: February 3, 2005, 09:30:00 ; Search time 40 Seconds  
(without alignments)  
12.027 Million cell updates/sec

Title: US-09-998-491A-4

Perfect score: 24

Sequence: 1 SMRER 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 40

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 400 summaries

Database :

PIR 79:\*

1: pir1:\*

2: pir2:\*

3: pir3:\*

4: pir4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	24	100.0	142	JQ1032	insulin-like growth
2	24	100.0	142	C41122	protein-tyrosine k
3	24	100.0	176	T30025	hypothetical prote
4	24	100.0	207	T36937	probable transcrip
5	24	100.0	213	G82252	Rnfa-related prote
6	24	100.0	236	T14169	hypothetical prote
7	24	100.0	276	T45275	oxidoreductase of
8	24	100.0	279	D82243	transcription regu
9	24	100.0	283	A11202	hypothetical prote
10	24	100.0	335	T34756	oligopeptide trans
11	24	100.0	336	E75593	conserved hypothet
12	24	100.0	385	T12980	hypothetical prote
13	24	100.0	392	E65292	protein F7H2.11 [i
14	24	100.0	392	E97006	histidine kinase-1
15	24	100.0	411	H69158	LPS biosynthesis R
16	24	100.0	477	A10872	6-phospho-beta-glu
17	24	100.0	479	E65074	bgIA protein - Bac
18	24	100.0	479	A85946	6-phospho-beta-glu
19	24	100.0	479	E91100	6-phospho-beta-glu
20	24	100.0	485	D72460	probable prollyl-tr
21	24	100.0	497	AG3134	N-ethylameline ch
22	24	100.0	498	AC0442	ABC transporter AT
23	24	100.0	498	E98153	N-ethylameline ch
24	24	100.0	542	D83041	probable two-compo
25	24	100.0	569	F75381	probable two-compo
26	24	100.0	606	S70829	primase - Myxococc
27	24	100.0	607	S62556	probable serine/th
28	24	100.0	640	S23008	insulin-like growth
29	24	100.0	695	E86627	cell division prot

30 24 100.0 695 2 S28533 tma protein - Lact  
31 24 100.0 814 2 T05537 probable serine/ch  
32 24 100.0 822 2 S71493 sucrose synthase (  
33 24 100.0 894 2 C86330 F6P9.22 protein -  
34 24 100.0 1367 1 IGHUR1 insulin-like growth  
35 24 100.0 1371 2 A33837 insulin-like growth  
36 24 100.0 1607 2 T02837 long chain fatty a  
37 24 100.0 1783 2 T42386 unconventional myo  
38 24 100.0 1945 2 T13937 plexin A - fruit f  
39 24 100.0 3511 2 A59295 unconventional myo  
40 24 100.0 4485 2 T08044 dynein gamma heavy

ALIGNMENTS

RESULT 1

JQ1032

insulin-like growth factor I receptor - chicken (fragment)

C:Species: Gallus gallus (chicken)

C:Date: 04-Sep-1998 #sequence\_revision 04-Sep-1998 #text\_change 09-Jul-2004

C:Accession: JQ1032

R:Scavo, L.M.; Serrano, J.; Roth, J.; de Pablo, F.

Biochem. Biophys. Res. Commun. 176, 1393-1401, 1991

A:Title: Genes for the insulin receptor and the insulin-like growth factor I receptor ar

A:Reference number: JQ1031; MUID:91248232; PMID:1710113

A:Accession: JQ1032

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-142 <SCA>

A:Cross-references: UNIPROT:Q90823

C:Superfamily: insulin receptor; protein kinase homology

Query Match 100.0%; Score 24; DB 2; Length 142;

Best Local Similarity 100.0%; Pred. No. 46;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 24 SMRER 28

RESULT 2

C41122

protein-tyrosine kinase (EC 2.7.1.112), IGF-I receptor homolog XTK 2 - African clawed fi

C:Species: Xenopus laevis (African clawed frog)

C:Date: 27-Mar-1992 #sequence\_revision 27-Mar-1992 #text\_change 09-Jul-2004

C:Accession: C41122

R:Scavo, L.; Shuldiner, A.R.; Serrano, J.; Dashner, R.; Roth, J.; de Pablo, F.

Proc. Natl. Acad. Sci. U.S.A. 88, 6214-6218, 1991

A:Title: Genes encoding receptors for insulin and insulin-like growth factor I are expr

A:Reference number: A41122; MUID:91296791; PMID:1648732

A:Accession: C41122

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-142 <SCA>

A:Cross-references: UNIPROT:Q99082; GB:M64661

C:Superfamily: insulin receptor; protein kinase homology

C:Keywords: ATP; phosphotransferase; receptor; tyrosine-specific protein kinase

F:1-142/Domain: protein kinase homology (fragment) <KIN>

Query Match 100.0%; Score 24; DB 2; Length 142;

Best Local Similarity 100.0%; Pred. No. 46;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 24 SMRER 28

RESULT 3

T30025

hypothetical protein K08F11.6 - Caenorhabditis elegans

C:Species: *Caenorhabditis elegans*  
 C:Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999  
 C:Accession: T30025  
 R:Murray, J.; Wohldmann, P.  
 submitted to the EMBL Data Library, September 1996  
 A:Description: The sequence of *C. elegans* cosmid K08F11.  
 A:Reference number: Z20723  
 C:Accession: T30025  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-176 <MUR>  
 A:Cross-references: EMBL:U70855; PIDN:AAB09158.1; GSPDB:GN00022; CESP:K08F11.6  
 A:Experimental source: strain Bristol N2; clone K08F11  
 C:Genetics:  
 A:Gene: CESP:K08F11.6  
 A:Map position: 4  
 A:Introns: 17/2

Query Match 100.0%; Score 24; DB 2; Length 176;  
 Best Local Similarity 100.0%; Pred. No. 57;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||  
 Db 5 SMRER 9

RESULT 4  
 T36937  
 Probable transcription regulator - Streptomyces coelicolor  
 C:Species: Streptomyces coelicolor  
 C:Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004  
 C:Accession: T36937  
 R:Seeger, K.J.; Harris, D.; Thomson, N.R.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.  
 submitted to the EMBL Data Library, September 1999  
 A:Reference number: Z21607  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Accession: T36937  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-207 <SEE>  
 A:Cross-references: UNIPROT:Q9RJ10; EMBL:AL109962; PIDN:CAB53122.1; GSPDB:GN00070; SCORDB:SCU1.04  
 C:Genetics:  
 A:Gene: SCORDB:SCU1.04

Query Match 100.0%; Score 24; DB 2; Length 207;  
 Best Local Similarity 100.0%; Pred. No. 66;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||  
 Db 150 SMRER 154

RESULT 5  
 G82252  
 RnA-related protein VC1017 [imported] - Vibrio cholerae (strain N16961 serogroup O1)  
 C:Species: Vibrio cholerae  
 C:Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 02-Feb-2001  
 C:Accession: G82252  
 R:Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.; Chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers, P. L.; R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.  
 Nature 406, 477-483, 2000  
 A:Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae.  
 A:Reference number: A82035; MUID:20406833; PMID:10952301  
 A:Status: preliminary  
 A:Accession: G82252  
 A:Molecule type: DNA  
 A:Residues: 1-213 <HEI>  
 A:Cross-references: GB:AF004183; GB:AF003852; NID:g9655473; PIDN:AAF94178.1; GSPDB:GN001  
 A:Experimental source: serogroup O1; strain N16961; biotype El Tor  
 C:Genetics:

A:Gene: VC1017  
 A:Map position: 1  
 C:Superfamily: conserved hypothetical protein H11688

Query Match 100.0%; Score 24; DB 2; Length 213;  
 Best Local Similarity 100.0%; Pred. No. 68;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||  
 Db 173 SMRER 177

RESULT 6  
 T14169  
 hypothetical protein - Mycobacterium smegmatis  
 C:Species: Mycobacterium smegmatis  
 C:Date: 20-Sep-1999 #sequence\_revision 20-Sep-1999 #text\_change 09-Jul-2004  
 C:Accession: T14169  
 R:Yu, S.; Fiss, E.; Jacobs Jr., W.R.  
 J. Bacteriol. 180, 4676-4685, 1998  
 A:Title: Analysis of the exochelin locus in mycobacterium smegmatis: biosynthesis genes  
 A:Reference number: Z17898; MUID:98389687; PMID:9721311  
 A:Accession: T14169  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-236 <YUS>  
 A:Cross-references: UNIPROT:O87318; EMBL:AF027770; NID:g3560502; PID:g3560511; PIDN:AAC8

Query Match 100.0%; Score 24; DB 2; Length 236;  
 Best Local Similarity 100.0%; Pred. No. 75;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||  
 Db 222 SMRER 226

RESULT 7  
 T45275  
 oxidoreductase of short-chain [imported] - Streptomyces coelicolor (A3(2))  
 C:Species: Streptomyces coelicolor  
 A:Variety: A3(2)  
 C:Date: 31-Jan-2000 #sequence\_revision 31-Jan-2000 #text\_change 09-Jul-2004  
 C:Accession: T45275  
 R:Martinez-Costa, O.H.; Martin-Triana, A.J.; Martinez, E.; Fernandez-Moreno, M.A.; Malpa  
 J. Bacteriol. 181, 4353-4364, 1999  
 A:Title: An additional regulatory gene for actinorhodin production in Streptomyces livida  
 A:Reference number: Z22953; MUID:99328982; PMID:10400594  
 A:Accession: T45275  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-276 <MAP>  
 A:Cross-references: UNIPROT:Q9X9U8; EMBL:Y18817; PIDN:CAB51136.1  
 A:Experimental source: A3(2); strain J1501  
 C:Superfamily: ribitol dehydrogenase; short-chain alcohol dehydrogenase homology

Query Match 100.0%; Score 24; DB 2; Length 276;  
 Best Local Similarity 100.0%; Pred. No. 88;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||  
 Db 121 SMRER 125

RESULT 8  
 D82243  
 transcription regulator AraC/Kyls family VC1076 [imported] - Vibrio cholerae (strain N16)  
 C:Species: Vibrio cholerae  
 C:Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 09-Jul-2004  
 C:Accession: D82243  
 R:Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.;

chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers, H.  
 1, R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.  
 Nature 406, 477-483, 2000  
 A>Title: DNA Sequence of both chromosomes of the cholera pathogen *Vibrio cholerae*.  
 A'Reference number: AB2035; MUID:20406833; PMID:10952301  
 A'Accession: D82243  
 A'Status: preliminary  
 A'Molecule type: DNA  
 A'Readlues: 1-279 <HEI>  
 A'Cross-references: UNIPROT:Q9KT29; GB:AE004189; GB:AE003852; NID:g9655541; PIDN:AAF9423  
 A'Experimental source: aerogroup O1; strain N16961; biotype El Tor  
 C'Genetica:  
 A'Gene: VC1076  
 A'Map position: 1

Query Match 100.0%; Score 24; DB 2; Length 279;  
 Best Local Similarity 100.0%; Pred. No. 89;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||

Db 156 SMRER 160

## RESULT 9

Ai1202  
 hypothetical protein lmo1025 [imported] - *Listeria monocytogenes* (strain EGD-e)  
 C'Species: *Listeria monocytogenes*  
 C'Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 09-Jul-2004  
 C'Accession: Ai1202  
 R'Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloeker  
 ; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.  
 D.; Jones, L.M.; Karst, U  
 Science 294, 849-852, 2001  
 A'Authors: Kref, J.; Kuhn, M.; Kunst, P.; Kurapk, G.; Madueno, E.; Maitournam, A.; Ma  
 ok, C.; Schluecker, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland,  
 A'Title: Comparative Genomics of *Listeria* species.  
 A'Reference number: AB1077; MUID:21537279; PMID:11679669  
 A'Accession: Ai1202  
 A'Status: preliminary  
 A'Molecule type: DNA  
 A'Readlues: 1-283 <GLA>  
 A'Cross-references: UNIPROT:Q8Y890; GB:NC\_003210; PIDN:CAC99103.1; PID:g16410427; GSPDB:  
 A'Experimental source: strain EGD-e  
 C'Genetica:  
 A'Gene: lmo1025

Query Match 100.0%; Score 24; DB 2; Length 283;  
 Best Local Similarity 100.0%; Pred. No. 90;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||

Db 5 SMRER 9

## RESULT 10

T34756  
 oligopeptide transport integral membrane protein - *Streptomyces coelicolor*  
 C'Species: *Streptomyces coelicolor*  
 C'Date: 05-Nov-1999 #sequence\_revision 05-Nov-1999 #text\_change 09-Jul-2004  
 C'Accession: T34756  
 R'Murphy, L.; Harris, D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.  
 submitted to the ENBL Data Library, August 1998  
 A'Reference number: Z21556  
 A'Accession: T34756  
 A'Status: preliminary; translated from GB/EMBL/DBJ  
 A'Molecule type: DNA  
 A'Readlues: 1-335 <MUR>  
 A'Cross-references: UNIPROT:Q86571; EMBL:AL031184; PIDN:CAA20179.1; GSPDB:GN00070; SCOE  
 A'Experimental source: strain A3(2)  
 C'Genetica:  
 A'Gene: SCOEDB:SC2A11.10

C'Superfamily: oligopeptide permease protein oppb

Query Match 100.0%; Score 24; DB 2; Length 335;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||

Db 221 SMRER 225

## RESULT 11

E75593  
 conserved hypothetical protein - *Deinococcus radiodurans* (strain R1)  
 C'Species: *Deinococcus radiodurans*  
 C'Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004  
 C'Accession: E75593  
 R'White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;  
 ; M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; Ma  
 S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.  
 Science 286, 1571-1577, 1999  
 A'Title: Genome sequence of the radioresistant bacterium *Deinococcus radiodurans* R1.  
 A'Reference number: A75250; MUID:20036896; PMID:10567266  
 A'Accession: E75593  
 A'Status: preliminary  
 A'Molecule type: DNA  
 A'Readlues: 1-336 <WHI>  
 A'Cross-references: UNIPROT:Q9RZE0; GB:AE001862; GB:AE001825; NID:g6460468; PIDN:AAF1228  
 A'Experimental source: strain R1  
 C'Genetica:  
 A'Gene: DRA0009  
 A'Map position: 2

Query Match 100.0%; Score 24; DB 2; Length 336;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||

Db 291 SMRER 295

## RESULT 12

Ti2980  
 hypothetical protein T6H20.270 - *Arabidopsis thaliana*  
 C'Species: *Arabidopsis thaliana* (mouse-ear cress)  
 C'Date: 13-Aug-1999 #sequence\_revision 13-Aug-1999 #text\_change 09-Jul-2004  
 C'Accession: Ti2980  
 R'Choisme, N.; Robert, C.; Brottier, P.; Wincker, P.; Cattolico, L.; Artiguenave, P.; Sa  
 submitted to the Protein Sequence Database, July 1999  
 A'Reference number: Z17586  
 A'Accession: Ti2980  
 A'Molecule type: DNA  
 A'Readlues: 1-385 <CHO>  
 A'Cross-references: UNIPROT:Q9STE4; EMBL:AL096859; GSPDB:GN00061; ATSP:T6H20.270  
 A'Experimental source: cultivar Columbia; BAC clone T6H20  
 C'Genetica:  
 A'Gene: ATSP:T6H20.270  
 A'Map position: 3  
 A'Introns: 56/1; 94/1  
 C'Superfamily: flavonol O3-glucoyltransferase

Query Match 100.0%; Score 24; DB 2; Length 385;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 |||||

Db 349 SMRER 353

## RESULT 13

A86292

protein F7H2.11 [imported] - Arabidopsis thaliana  
 C:Species: Arabidopsis thaliana (mouse-ear cress)  
 C>Date: 02-Mar-2001 #sequence\_revision 02-Mar-2001 #text\_change 09-Jul-2004  
 C/Accession: A86292  
 R/Theologas, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,  
 anen, N.P.; Hughes, B.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.;  
 Nature 408, 816-820, 2000  
 A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.  
 C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani,  
 Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.  
 A:Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon,  
 ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.  
 A>Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.  
 A:Reference number: A86141; MUID:21016719; PMID:11130712  
 A/Accession: A86292  
 A>Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-392 <STO>  
 A/Cross-references: UNIPROT:Q9LMQ7; GB:AE005172; NID:g8927656; PIDN:AAF82147.1; GSPDB:GN  
 C:Genetics:  
 A:Gene: F7H2.11  
 A:Map position: 1

Query Match 100.0%; Score 24; DB 2; Length 392;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 Db 19 SMRER 23

RESULT 14  
 E97006  
 histidine kinase-like ATPase [imported] - Clostridium acetobutylicum  
 C:Species: Clostridium acetobutylicum  
 C>Date: 14-Sep-2001 #sequence\_revision 14-Sep-2001 #text\_change 09-Jul-2004  
 C/Accession: E97006  
 R/Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee,  
 ; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.  
 J. Bacteriol. 183, 4823-4838, 2001  
 A>Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Cl  
 A:Reference number: A96900; MUID:21359325; PMID:21359325  
 A/Accession: E97006  
 A>Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-392 <KUR>  
 A/Cross-references: UNIPROT:Q97K03; GB:AE001437; PIDN:AAK78840.1; PID:g15023759; GSPDB:G  
 A:Experimental source: Clostridium acetobutylicum ATCC824  
 C:Genetics:  
 A:Gene: CAC0864

Query Match 100.0%; Score 24; DB 2; Length 392;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 Db 348 SMRER 352

RESULT 15  
 H69158  
 LPS biosynthesis RfbU related protein - Methanobacterium thermoautotrophicum (strain Del  
 C:Species: Methanobacterium thermoautotrophicum  
 C>Date: 05-Dec-1997 #sequence\_revision 05-Dec-1997 #text\_change 09-Jul-2004  
 C/Accession: H69158  
 R/Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.;  
 ; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N.  
 Ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.  
 J. Bacteriol. 179, 7135-7155, 1997  
 A>Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: funct

A:Reference number: A69000; MUID:98037514; PMID:9371463  
 A/Accession: H69158  
 A>Status: preliminary; nucleic acid sequence not shown; translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-411 <MTH>  
 A/Cross-references: UNIPROT:Q26550; GB:AE000666  
 A:Experimental source: strain Delta H  
 C:Genetics:  
 A:Gene: MTH450  
 C:Superfamily: probable hexosyltransferase ytxN

Query Match 100.0%; Score 24; DB 2; Length 411;  
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 Db 382 SMRER 386

RESULT 16  
 AI0872  
 6-phospho-beta-glucosidase (EC 3.2.1.86) [imported] - Salmonella enterica subsp. enteric  
 C:Species: Salmonella enterica subsp. enterica serovar Typhi  
 A>Note: this species has also been called Salmonella typhi  
 C>Date: 09-Nov-2001 #sequence\_revision 09-Nov-2001 #text\_change 18-Nov-2002  
 C/Accession: AI0872  
 R/Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher,  
 th, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,  
 . S.; Moule, S.; O'Gaora, P.  
 Nature 413, 848-852, 2001  
 A:Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.;  
 A>Title: Complete genome sequence of a multiple drug resistant Salmonella enterica serov  
 A:Reference number: AB0502; MUID:21534947; PMID:11677608  
 A/Accession: AI0872  
 A>Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-477 <FAR>  
 A/Cross-references: GB:AL513382; PIDN:CAD02881.1; PID:g16504134; GSPDB:GN00176  
 C:Genetics:  
 A:Gene: STY3207  
 C:Superfamily: Agrobacterium beta-glucosidase  
 C:Keywords: glycosidase; hydrolase

Query Match 100.0%; Score 24; DB 2; Length 477;  
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
 Db 261 SMRER 265

RESULT 17  
 E65074  
 bglA protein - Escherichia coli (strain K-12)  
 C:Species: Escherichia coli  
 C>Date: 12-Sep-1997 #sequence\_revision 17-Sep-1997 #text\_change 09-Jul-2004  
 C/Accession: E65074  
 R/Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Co  
 . A.; Rose, D.J.; Mau, B.; Shao, Y.  
 Science 277, 1453-1462, 1997  
 A>Title: The complete genome sequence of Escherichia coli K-12.  
 A:Reference number: A64720; MUID:97426617; PMID:9278503  
 A/Accession: E65074  
 A>Status: preliminary; nucleic acid sequence not shown; translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-479 <BLAT>  
 A/Cross-references: UNIPROT:Q46829; GB:AE000373; GB:U00096; NID:g2367173; PIDN:AACT5939.  
 A:Experimental source: strain K-12, substrain MG1655  
 C:Genetics:  
 A:Gene: bglA  
 C:Superfamily: Agrobacterium beta-glucosidase

```
Query Match      100.0%; Score 24; DB 2; Length 479;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      263 SMRER 267

RESULT 18
A:Accession: A85946
6-phospho-beta-glucosidase A, cryptic [imported] - Escherichia coli (strain O157:H7, sub
C:Species: Escherichia coli
C:Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C:Accession: A85946
R:Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grobeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamoudis, K.; Apodaca,
Nature 409, 529-533, 2001
A:Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A:Reference number: A85480; MUID:21074935; PMID:11206551
A:Accession: A85946
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-479 <STO>
A:Cross-references: UNIPROT:Q8XD40; GB:BA0005174; NID:gi2517429; PIDN:AGS8029.1; GSPDB:G
A:Experimental source: strain O157:H7, substrain EDL933
C:Genetics:
A:Gene: bgla
C:Superfamily: Agrobacterium beta-glucosidase

Query Match      100.0%; Score 24; DB 2; Length 479;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      263 SMRER 267

RESULT 19
E91100
6-phospho-beta-glucosidase A [imported] - Escherichia coli (strain O157:H7, substrain RI
C:Species: Escherichia coli
C:Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C:Accession: E91100
R:Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyana, K.; Han, C.G.
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shingawa, H.
DNA Res. 8, 11-22, 2001
A:Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and genc
A:Reference number: A99629; MUID:21156231; PMID:11258796
A:Accession: E91100
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-479 <HAY>
A:Cross-references: UNIPROT:Q8XD40; GB:BA000007; PIDN:BA837196.1; PID:gi13363245; GSPDB:G
A:Experimental source: strain O157:H7, substrain RIMD 0509952
C:Genetics:
A:Gene: ECs3773
C:Superfamily: Agrobacterium beta-glucosidase

Query Match      100.0%; Score 24; DB 2; Length 479;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      263 SMRER 267

RESULT 20
D72460
probable prolyl-tRNA synthetase APE2328 - Aeropyrum pernix (strain K1)
```

```
C:Species: Aeropyrum pernix
C:Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004
C:Accession: D72460
R:Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah
awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K
DNA Res. 6, 83-101, 1999
A:Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr
A:Reference number: A72450; MUID:99310339; PMID:10382966
A:Accession: D72460
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-485 <KAW>
A:Cross-references: UNIPROT:Q9Y9G0; DDBJ:AP000064; NID:gs105945; PIDN:BAA81340.1; PID:gs
A:Experimental source: strain K1
C:Genetics:
A:Gene: APE2328
C:Superfamily: proline-tRNA ligase proS

Query Match      100.0%; Score 24; DB 2; Length 485;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      397 SMRER 401

RESULT 21
AG3134
N-ethylmaleine chlorohydrolase [imported] - Agrobacterium tumefaciens (strain C58, Dupo
C:Species: Agrobacterium tumefaciens
C:Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004
C:Accession: AG3134
R:Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L.
; Karp, P.; Romero, P.; Grant, C.; Guenther, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell
Science 294, 2317-2323, 2001
A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
ster, E.W.
A:Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A:Reference number: AB2577; MUID:21608550; PMID:11743193
A:Accession: AG3134
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-497 <KUR>
A:Cross-references: UNIPROT:Q8U6V7; GB:AE008689; PIDN:AAL45493.1; PID:gi7743201; GSPDB:G
A:Experimental source: strain C58 (DuPont)
C:Genetics:
A:Gene: trzA
A:Map position: linear chromosome

Query Match      100.0%; Score 24; DB 2; Length 497;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 SMRER 5
      |||||
Db      442 SMRER 446

RESULT 22
AC0442
ABC transporter ATP binding protein YPO3634 [imported] - Yersinia pestis (strain CO92)
C:Species: Yersinia pestis
C:Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C:Accession: AC0442
R:Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.
deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell,
Nature 413, 523-527, 2001
A:Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A:Reference number: AB0001; MUID:21470413; PMID:11586360
A:Accession: AC0442
```

A>Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-498 <KUR>  
A:Cross-references: UNIPROT:Q8ZAZ5; GB:AL590842; PIDN:CAC93103.1; PID:g15981555; GSPDB:G  
C:Genetics:  
A:Gene: YP03634

Query Match 100.0%; Score 24; DB 2; Length 498;  
Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 121 SMRER 125

## RESULT 23

E98153  
N-ethylmaleline chlorohydrolase, trzA (AE005110) [imported] - Agrobacterium tumefaciens  
C:Species: Agrobacterium tumefaciens  
C>Date: 22-Oct-2001 #sequence\_revision 22-Oct-2001 #text\_change 09-Jul-2004  
C:Accession: E98153

R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Ouello, B.; Goldman,  
A.; Liu, P.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.;  
Science 294, 2323-2328, 2001

A>Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum  
A:Reference number: A97359; MUID:21608551; PMID:11743194

A:Accession: E98153

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-498 <KUR>

A:Cross-references: UNIPROT:Q8U6V7; GB:AE007870; PIDN:AAK88751.1; PID:g15158493; GSPDB:G

C:Genetics:

A:Gene: AGR L 363

A:Map position: linear chromosome

Query Match 100.0%; Score 24; DB 2; Length 498;  
Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 443 SMRER 447

## RESULT 24

D83041

probable two-component response regulator PA4843 [imported] - Pseudomonas aeruginosa (st  
C:Species: Pseudomonas aeruginosa

C>Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 16-Aug-2004

C:Accession: D83041

R:Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; B  
adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,  
; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A>Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho  
A:Reference number: A82950; MUID:20437337; PMID:10984043

A:Accession: D83041

A:Molecule type: DNA

A:Residues: 1-542 <STO>

A:Cross-references: UNIPROT:Q9HUW7; GB:AE004897; GB:AE004091; NID:g9951107; PIDN:AAG0822

A:Experimental source: strain PA01

C:Genetics:

A:Gene: PA4843

C:Superfamily: Response regulator diguanylate cyclase, PleD type

Query Match 100.0%; Score 24; DB 2; Length 542;

Best Local Similarity 100.0%; Pred. No. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 121 SMRER 125

Db 162 SMRER 166

## RESULT 25

F75381

probable two-component sensor - Deinococcus radiodurans (strain R1)

C:Species: Deinococcus radiodurans

C>Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004

C:Accession: F75381

R:White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;

S.; Shen, H.O.; Venter, J.C.; Fraser, C.M.

Science 286, 1571-1577, 1999

A>Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.

A:Reference number: A75250; MUID:20036896; PMID:10567266

A:Accession: F75381

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-569 <WHI>

A:Cross-references: UNIPROT:Q9RU39; GB:AE001999; GB:AE000513; NID:g6459316; PIDN:AAF1111

A:Experimental source: strain R1

C:Genetics:

A:Gene: DR1556

A:Map position: 1

Query Match 100.0%; Score 24; DB 2; Length 569;

Best Local Similarity 100.0%; Pred. No. 1.8e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 531 SMRER 535

## RESULT 26

S70829

primase - Myxococcus xanthus

C:Species: Myxococcus xanthus

C>Date: 12-Feb-1998 #sequence\_revision 20-Feb-1998 #text\_change 09-Jul-2004

C:Accession: S70829

R:Davis, J.M.; Mayor, J.; Plamann, L.

Mol. Microbiol. 18, 943-952, 1995

A>Title: A missense mutation in rpoD results in an A-signalling defect in Myxococcus xan

A:Reference number: S70829; MUID:96422481; PMID:8825098

A:Accession: S70829

A>Status: preliminary; nucleic acid sequence not shown

A:Molecule type: DNA

A:Residues: 1-606 <DAV>

A:Cross-references: UNIPROT:P50070; EMBL:U20669; NID:g710339; PIDN:AAB60207.1; PID:g7103

C:Genetics:

A:Gene: dnaG

A:Start codon: GTG

C:Superfamily: DNA primase

Query Match 100.0%; Score 24; DB 2; Length 606;

Best Local Similarity 100.0%; Pred. No. 1.9e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5

Db 104 SMRER 108

## RESULT 27

S62556

probable serine/threonine protein kinase - fission yeast (Schizosaccharomyces pombe)

C:Species: Schizosaccharomyces pombe

C>Date: 16-May-1996 #sequence\_revision 13-Mar-1997 #text\_change 09-Jul-2004

C:Accession: S62556; T38338

R:Odell, C.; Churcher, C.M.

submitted to the EMBL Data Library, November 1995

A:Reference number: S62546

A:Accession: S62556



A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-607 <ODE>  
A:Crossa-references: UNIPROT:Q09898; EMBL:Z67757; NID:G1061288; PIDN:CAA91776.1; PID:G1061288  
R:Odell, C.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Walsh, S.V.  
submitted to the EMBL Data Library, November 1995  
A:Reference number: Z21786  
A:Accession: T39338  
A:Status: preliminary; translated from GB/EMBL/DDBJ  
A:Molecule type: DNA  
A:Residues: 1-607 <OD2>  
A:Crossa-references: EMBL:Z67757; PIDN:CAA91776.1; GSPDB:GN000066; SPDB:SPAC24B11.11c  
A:Experimental source: strain 972h-; cosmid c24B11  
C:Genetics:  
A:Gene: SPAC24B11.11c  
A:Map position: 1L  
C:Keywords: ATP  
F:206-508/Domain: protein kinase homology <KIN>  
F:214-222/Region: protein kinase ATP-binding motif

Query Match 100.0%; Score 24; DB 2; Length 607;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 381 SMRER 385

RESULT 28  
S23008  
inulin-like growth factor receptor 1 - bovine  
C:Species: Bos primigenius taurus (cattle)  
C:Date: 08-Jun-1994 #sequence\_revision 01-Sep-1995 #text\_change 09-Jul-2004  
A:Accession: S23008  
R:Snyers, M.; Kettmann, R.; Massart, S.; Renaville, R.; Burny, A.; Portetelle, D.  
DNA Seq. 1, 405-406, 1991  
A:Title: Cloning and characterization of a cDNA encoding the beta-subunit of the bovine  
A:Reference number: S23008; MUID:92119330; PMID:1662995  
A:Accession: S23008  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-640 <SNE>  
A:Crossa-references: UNIPROT:Q05688; EMBL:X54980; NID:G433; PIDN:CAA38724.1; PID:G434  
A:Superfamily: insulin receptor; protein kinase homology  
C:Keywords: ATP; growth factor receptor  
F:270-546/Domain: protein kinase homology <KIN>  
F:278-286/Region: protein kinase ATP-binding motif

Query Match 100.0%; Score 24; DB 2; Length 640;  
Best Local Similarity 100.0%; Pred. No. 2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 313 SMRER 317

RESULT 29  
E86627  
cell division protein FtsH [imported] - Lactococcus lactis subsp. lactis (strain IL1403)  
C:Species: Lactococcus lactis subsp. lactis  
C:Date: 23-Mar-2001 #sequence\_revision 23-Mar-2001 #text\_change 09-Jul-2004  
A:Accession: E86627  
R:Boletín, A.; Wincker, P.; Mauger, S.; Jaillon, O.; Malarne, K.; Weissenbach, J.; Ehrlich  
Genome Res. 11, 731-753, 2001  
A:Title: The complete genome sequence of the lactic acid bacterium Lactococcus lactis ssp  
A:Reference number: A86625; MUID:21235186; PMID:11337471  
A:Accession: E86627  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-695 <STO>  
A:Crossa-reference: UNIPROT:P46469; GB:AE005176; PID:G12722858; PIDN:AAK04119.1; GSPDB:G

A:Experimental source: strain IL1403  
C:Genetics:  
A:Gene: ftsH  
C:Superfamily: cell division protein ftsH; FtsH/SEC18/CDC48-type ATP-binding domain homo  
Query Match 100.0%; Score 24; DB 2; Length 695;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 446 SMRER 450

RESULT 30  
S28533  
tma protein - Lactococcus lactis  
C:Species: Lactococcus lactis  
C:Date: 23-Apr-1993 #sequence\_revision 10-Nov-1995 #text\_change 09-Jul-2004  
A:Accession: S28533; S30101; S28266  
R:Nilsson, D.; Lauridsen, A.A.  
submitted to the EMBL Data Library, November 1992  
A:Description: A Lactococcus lactis gene product has similarity to a group of eucaryotic  
A:Reference number: S28531  
A:Accession: S28533  
A:Molecule type: DNA  
A:Residues: 1-695 <NIL>  
A:Crossa-references: UNIPROT:P46469; EMBL:X69123; NID:G44025; PIDN:CAA48877.1; PID:G44027  
A:Experimental source: strain CHCC285  
R:Nilsson, D.; Lauridsen, A.A.  
Mol. Gen. Genet. 235, 359-364, 1992  
A:Title: Isolation of purine auxotrophic mutants of Lactococcus lactis and characterizati  
A:Reference number: S30100; MUID:93101141; PMID:1465108  
A:Accession: S30101  
A:Status: nucleic acid sequence not shown; translation not shown  
A:Molecule type: DNA  
A:Residues: 1-103 <NT1>  
A:Crossa-references: EMBL:X67015; NID:G49104; PIDN:CAA47405.1; PID:G49106  
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1992  
R:Nilsson, D.  
submitted to the EMBL Data Library, June 1992  
A:Reference number: S28265  
A:Accession: S28266  
A:Molecule type: DNA  
A:Residues: 1-103 <NI2>  
A:Crossa-references: EMBL:X67015; NID:G49104; PIDN:CAA47405.1; PID:G49106  
C:Genetics:  
A:Gene: tma  
C:Superfamily: cell division protein ftsH; FtsH/SBC18/CDC48-type ATP-binding domain homo  
C:Keywords: ATP; nucleotide binding; P-loop  
F:207-417/Domain: FtsH/SEC18/CDC48-type ATP-binding domain homology <VATP>  
F:233-240/Region: nucleotide-binding motif A (P-loop)

Query Match 100.0%; Score 24; DB 2; Length 695;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
Db 446 SMRER 450

RESULT 31  
T05537  
probable serine/threonine-specific protein kinase (EC 2.7.1.1-) F13M23.300 - Arabidopsis  
C:Species: Arabidopsis thaliana (mouse-ear cress)  
C:Date: 23-Apr-1999 #sequence\_revision 23-Apr-1999 #text\_change 09-Jul-2004  
A:Accession: T05537  
R:Bevan, M.; Wedler, H.; Wedler, E.; Wambutt, R.; Hoheisel, J.; Meyer, H.W.; Mayer, K.F.  
submitted to the Protein Sequence Database, February 1999  
A:Reference number: Z15419  
A:Accession: T05537  
A:Molecule type: DNA

A;Residues: 1-814 <BEV>  
A;Cross-references: UNIPROT:Q9SW11; EMBL:AL035523  
A;Experimental source: cultivar Columbia; BAC clone F13M23  
C;Genetics:  
A;Map position: 4  
A;Intons: 74/1; 112/2; 172/1; 325/3; 359/3; 502/3; 755/3  
A;Note: F13M23.300  
C;Keywords: phosphotransferase; protein kinase

Query Match 100.0%; Score 24; DB 2; Length 814;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
DB 404 SMRER 408

RESULT 32  
S71493  
sucrose synthase (EC 2.4.1.13) - beet  
C;Species: Beta vulgaris (beet)  
C;Date: 09-Dec-1997 #sequence\_revision 09-Dec-1997 #text\_change 09-Jul-2004  
C;Accession: S71493; S71494  
R;Hesse, H.; Willmitzer, L.  
Plant Mol. Biol. 30, 863-872, 1996  
A;Title: Expression analysis of a sucrose synthase gene from sugar beet (Beta vulgaris L.)  
A;Reference number: S71493; MUID:96270366; PMID:8639746  
A;Accession: S71493  
A;Molecule type: mRNA  
A;Residues: 1-822 <HES>  
A;Cross-references: UNIPROT:Q42652; EMBL:X81974  
R;Hesse, H.; Willmitzer, L.  
submitted to the EMBL Data Library, September 1994  
A;Description: Molecular cloning of a mitochondrial isoform of Cysteine Synthase from Arabidopsis  
A;Reference number: S71494  
A;Accession: S71494  
A;Molecule type: mRNA  
A;Residues: 'AG', 59-822 <HEW>  
A;Cross-references: EMBL:X81974; NID:g1488569; PIDN:CAA57499.1; PID:g1488570  
C;Superfamily: sucrose synthase; sucrose/sucrose-phosphate synthase homology  
C;Keywords: glycosyltransferase; hexosyltransferase  
F:280-755/Domain: sucrose/sucrose-phosphate synthase homology <SSPS>

Query Match 100.0%; Score 24; DB 2; Length 822;  
Best Local Similarity 100.0%; Pred. No. 2.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
DB 10 SMRER 14

RESULT 33  
C86330  
F6F9.22 protein - Arabidopsis thaliana  
C;Species: Arabidopsis thaliana (mouse-ear cress)  
C;Date: 02-Mar-2001 #sequence\_revision 02-Mar-2001 #text\_change 09-Jul-2004  
C;Accession: C86330  
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, J.; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, T.H.; Dewar, K.; Jensen, N.F.; Hughes, B.; Huizar, L.  
Nature 408, 816-820, 2000  
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.  
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.  
A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.  
A;Reference number: A86141; MUID:21016719; PMID:11130712  
A;Accession: C86330  
A;Status: preliminary  
A;Molecule type: DNA

A;Residues: 1-894 <STO>  
A;Cross-references: UNIPROT:Q9FXH1; GB:AE005172; NID:g10086495; PIDN:AAG12555.1; GSPDB:G  
C;Genetics:  
A;Map position: 1

Query Match 100.0%; Score 24; DB 2; Length 894;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
|||||  
DB 140 SMRER 144

RESULT 34  
IGHUR1  
insulin-like growth factor 1 receptor precursor - human  
N;Alternate names: IGF-I receptor  
N;Contains: insulin-like growth factor 1 receptor alpha chain; insulin-like growth facto  
C;Species: Homo sapiens (man)  
C;Date: 24-Jun-1987 #sequence\_revision 10-May-1996 #text\_change 09-Jul-2004  
C;Accession: A25690; B38268; PQ0159; A54170; B54170  
R;Jullrich, A.; Gray, A.; Tam, A.W.; Yang-Feng, T.; Tsubokawa, M.; Collins, C.; Henzel, W.  
EMBO J. 5, 2503-2512, 1986  
A;Reference number: A25690; MUID:87053815; PMID:2877871  
A;Accession: A25690  
A;Molecule type: mRNA  
A;Residues: 1-1367 <ULL>  
A;Cross-references: UNIPROT:P08069; EMBL:M24599; GB:X04434; NID:g33058; PIDN:CAA28030.1.  
A;Experimental source: placenta  
A;Note: parts of this sequence were confirmed by peptide sequencing  
R;Partanen, J.; Maekelae, T.P.; Alitalo, R.; Lehtvaeslaiho, H.; Alitalo, K.  
Proc. Natl. Acad. Sci. U.S.A. 87, 8913-8917, 1990  
A;Title: Putative tyrosine kinases expressed in K-562 human leukemia cells.  
A;Reference number: A38268; MUID:91062389; PMID:2247464  
A;Accession: B38268  
A;Status: nucleic acid sequence not shown; not compared with conceptual translation  
A;Molecule type: mRNA  
R;Cooke, D.W.; Bankert, L.A.; Roberts Jr., C.T.; LeRoith, D.; Casella, S.J.  
Biochem. Biophys. Res. Commun. 177, 1113-1120, 1991  
A;Title: Analysis of the human type I insulin-like growth factor receptor promoter regio  
A;Reference number: PQ0159; MUID:91282751; PMID:1711844  
A;Accession: PQ0159  
A;Status: translation not shown  
A;Molecule type: DNA  
A;Residues: 1-31 <COO>  
R;Kasuya, J.; Paz, I.B.; Maddux, B.A.; Goldfine, I.D.; Hefta, S.A.; Fujita-Yamaguchi, Y.  
Biochemistry 32, 13531-13536, 1993  
A;Title: Characterization of human placental insulin-like growth factor-I/insulin hybrid  
A;Reference number: A54170; MUID:94079885; PMID:8257688  
A;Accession: A54170  
A;Molecule type: protein  
A;Residues: 31-32,'X',34-39,'X',41-45 <KAS>  
A;Experimental source: placenta  
A;Note: sequence extracted from NCBI backbone (NCBIP:141172) and corrected to correspond  
A;Accession: B54170  
A;Molecule type: protein  
A;Residues: 741-746,'X',748-750 <KAS2>  
A;Experimental source: placenta  
C;Genetics:  
A;Gene: GDB:IGF1R  
A;Cross-references: GDB:120082; OMIM:147370  
A;Map position: 15q26.1-15qter  
C;Complex: heterotrimer of 2 alpha and 2 beta chains; alpha and beta chains are derive  
the two alpha chains are disulfide bonded; also naturally forms a disulfide bonded hybr  
C;Function:  
A;Description: membrane glycoprotein that mediates the effects of insulin-like growth ho  
sine-kinase activity; the beta chain tyrosine-kinase undergoes autophosphorylation and c  
C;Superfamily: insulin receptor; protein kinase homology  
C;Keywords: ATP; autophosphorylation; glycoprotein; growth factor receptor; phosphoprote  
F:1-30/Domain: signal sequence #status predicted <SIG>

F:31-736/Product: insulin-like growth factor 1 receptor alpha chain #status predicted <A>  
F:178-332/Region: cysteine-rich  
F:741-1367/Product: insulin-like growth factor 1 receptor beta chain #status predicted <A>  
F:936-958/Domain: transmembrane #status predicted <TMM>  
F:997-1273/Domain: protein kinase homology <KIN>  
F:1005-1013/Region: protein kinase ATP-binding motif  
F:102-135,244,314,417,438,534,607,622,640,756,764,900,913/Binding site: carbohydrate (Asn)  
F:455-488/Dsulfide bonds: #status predicted  
F:544/Dsulfide bonds: interchain #status predicted  
F:747/Binding site: carbohydrate (Asn) (covalent) #status experimental  
F:1033,1135/Active site: Lys, Asn #status predicted  
F:1161,1165,1166,1136/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation)

Query Match 100.0%; Score 24; DB 1; Length 1367;  
Best Local Similarity 100.0%; Pred. No. 4.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 1040 SMRER 1044

RESULT 35  
A3387  
Insulin-like growth factor I receptor precursor - rat  
N:Contains: insulin-like growth factor I alpha chain; insulin-like growth factor I beta  
C:Species: Rattus norvegicus (Norway rat)  
C:Date: 16-Mar-1990 #sequence revision 03-Nov-1995 #text\_change 09-Jul-2004  
C:Accession: J02461; A33837; F01131  
R:Pedrini, M.T.; Giorgino, F.; Smith, R.J.  
Biochem. Biophys. Res. Commun. 202, 1038-1046, 1994  
A:Title: cDNA cloning of the rat IGF I receptor: Structural analysis of rat and human IGF I receptor  
A:Reference number: J02461; MUID:943224926; PMID:8048916  
A:Accession: J02461  
A:Molecule type: mRNA  
A:Residues: 1-1371 <PED>  
A:Cross-references: UNIPROT:Q9QW4  
R:Werner, H.; Woloschak, M.; Adamo, M.; Shen-Orr, Z.; Roberts Jr., C.T.; LeRoith, D.  
Proc. Natl. Acad. Sci. U.S.A. 86, 7451-7455, 1989  
A:Title: Developmental regulation of the rat insulin-like growth factor I receptor gene.  
A:Reference number: A33837; MUID:90017496; PMID:2477843  
A:Accession: A33837  
A:Molecule type: mRNA  
A:Residues: 1-364 <WER>  
A:Cross-references: GB:M27293  
R:Kurachi, H.; Jobo, K.; Ohta, M.; Kawasaki, T.; Itoh, N.  
Biochem. Biophys. Res. Commun. 187, 934-939, 1992  
A:Title: A new member of the insulin receptor family, insulin receptor-related receptor,  
A:Reference number: PC1130; MUID:92412145; PMID:1530648  
A:Accession: PC1131  
A:Molecule type: mRNA  
A:Residues: 913-984, 'FY', 987-1017 <KUR>  
A:Cross-references: GB:D12679; NID:9220918; PIDN:BA20983.1; PID:94433359  
C:Superfamily: insulin receptor; protein kinase homology  
C:Keywords: ATP; growth factor receptor; kinase-related transforming protein; transmembrane  
F:1-30/Domain: signal sequence #status predicted <SIG>  
F:31-741/Product: insulin-like growth factor I alpha chain #status predicted <IGA>  
F:742-1371/Product: insulin-like growth factor I beta chain #status predicted <IGB>  
F:937-959/Domain: transmembrane #status predicted <TMM>  
F:971-974/Region: GPXY motif  
F:978-981/Region: NPXY motif  
F:998-1275/Domain: protein kinase homology <KIN>  
F:1006-1014/Region: protein kinase ATP-binding motif

Query Match 100.0%; Score 24; DB 2; Length 1371;  
Best Local Similarity 100.0%; Pred. No. 4.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 1041 SMRER 1045

RESULT 36  
T02837  
long chain fatty acyl CoA synthetase LCFACAS5 [imported] - Leishmania major (strain Frie  
C:Species: Leishmania major  
C:Date: 24-Mar-1999 #sequence\_revision 24-Mar-1999 #text\_change 09-Jul-2004  
C:Accession: A01461; T02837  
R:Myler, P.J.; Audleman, L.; devos, T.; Hixson, G.; Kiser, P.; Lemley, C.; Magness, C.;  
Proc. Natl. Acad. Sci. U.S.A. 96, 2902-2906, 1999  
A:Title: Leishmania major Friedlin chromosome 1 has an unusual distribution of protein-c  
A:Reference number: A01455; MUID:99178987; PMID:10077609  
A:Accession: A01461  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-1607 <PVL>  
A:Cross-references: UNIPROT:Q94599; GB:AE001274; NID:93264850; PIDN:AAC24660.1; PID:g161  
A:Experimental source: strain WHOM/IL/81/Friedlin  
C:Genetics:  
A:Gene: LCFACAS5  
A:Map position: 1

Query Match 100.0%; Score 24; DB 2; Length 1607;  
Best Local Similarity 100.0%; Pred. No. 5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 797 SMRER 801

RESULT 37  
T42386  
unconventional myosin 15 - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C:Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004  
C:Accession: T42386; J00268  
R:Probst, F.J.; Fridell, R.A.; Raphael, Y.; Saunders, T.L.; Wang, A.; Liang, Y.; Morell,  
Science 280, 1444-1447, 1998  
A:Title: Correction of deafness in shaker-2 mice by an unconventional myosin in a BAC tr  
A:Reference number: 222145; MUID:98267310; PMID:9603735  
A:Accession: T42386  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-1783 <PRO>  
A:Cross-references: UNIPROT:Q90224; EMBL:AF053130; NID:g3168865; PID:g3168866; PIDN:AAC4  
R:Wakabayashi, Y.; Takahashi, Y.; Kikkawa, Y.; Okano, H.; Mishima, Y.; Ushiki, T.; Yonek  
Biochem. Biophys. Res. Commun. 248, 655-659, 1998  
A:Title: A novel type of myosin encoded by the mouse deafness gene shaker-2.  
A:Reference number: J00268; MUID:98369604; PMID:9703981  
A:Accession: J00268  
A:Molecule type: mRNA  
A:Residues: 70-162, 'KI', 163-409, 'R', 411-654 <WAK>  
A:Cross-references: DBJ:AB014510; NID:g4126466; PIDN:BA336582.1; PID:d1037569; PID:g412  
A:Note: this sequence variant may cause mouse deafness  
C:Genetics:  
A:Gene: Myo15; shaker-2  
A:Map position: 11  
C:Function:  
A:Description: may be required for actin organization in the hair cells of the cochles  
F:42-702/Domain: myosin motor domain homology <MMO>

Query Match 100.0%; Score 24; DB 2; Length 1783;  
Best Local Similarity 100.0%; Pred. No. 5.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SMRER 5  
Db 711 SMRER 715

RESULT 38  
T13937  
plexin A - fruit fly (Drosophila melanogaster)

C:Species: Drosophila melanogaster  
C:Date: 20-Sep-1999 #sequence\_revision 20-Sep-1999 #text\_change 09-Jul-2004  
C:Accession: T13937  
R:Winberg, M.L.; Noordermeer, J.N.; Tamagnone, L.; Comoglio, P.M.; Spriggs, M.K.; Tessier  
Cell 95, 903-916, 1998  
A:Title: Plexin A is a neuronal semaphorin receptor that controls axon guidance.  
A:Reference number: Z17621; MUID:99091049; PMID:9875845  
A:Accession: T13937  
A>Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-1945 <WIN>  
A:Cross-references: UNIPROT:O96681; EMBL:AF106932; PID:g4056673; NID:g4056674; PIDN:AADD  
C:Genetics:  
A:Gene: plexA  
A:Cross-references: FlyBase:FBgn0025741  
A:Map position: 4  
C:Function:  
A:Description: may function as repellents during axon guidance  
C:Keywords: cell adhesion; nerve

Query Match 100.0%; Score 24; DB 2; Length 1945;  
Best Local Similarity 100.0%; Pred.No. 6e+02; Indels 0; Gaps 0;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1418 SMRER 1422

RESULT 39  
A59295  
unconventional myosin-15 - mouse  
C:Species: Mus musculus (house mouse)  
C:Date: 09-Jun-2000 #sequence\_revision 09-Jun-2000 #text\_change 09-Jul-2004  
C:Accession: A59295  
R:Liang, Y.; Wang, A.; Belyantseva, I.A.; Anderson, D.W.; Probst, F.J.; Barber, T.D.; Mi  
an, T.B.; Fridell, R.A.  
Genomics 61, 243-258, 1999  
A:Title: Characterization of the human and mouse unconventional myosin XV genes responsi  
A:Reference number: A59266; MUID:20021762; PMID:10552926  
A:Accession: A59295  
A>Status: preliminary; not compared with conceptual translation  
A:Molecule type: mRNA  
A:Residues: 1-3511 <LIA>  
A:Cross-references: UNIPROT:Q9QZ4; GB:AF144095; NID:g6224684; PIDN:AAF05904.1; PID:g622  
C:Genetics:  
A:Gene: MGI:Myo15  
A:Cross-references: MGI:1261811  
A:Map position: 11:33.9  
F:1209-1871/Domain: myosin motor domain homology <MMO>

Query Match 100.0%; Score 24; DB 2; Length 3511;  
Best Local Similarity 100.0%; Pred.No. 1.1e+03; Indels 0; Gaps 0;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1880 SMRER 1884

RESULT 40  
T08044  
dynein gamma heavy chain, outer-arm - Chlamydomonas reinhardtii  
N:Contains: dynein ATPase (EC 3.6.4.2)  
C:Species: Chlamydomonas reinhardtii  
C:Date: 21-May-1999 #sequence\_revision 21-May-1999 #text\_change 09-Jul-2004  
C:Accession: T08044  
R:Wilkinson, C.G.; King, S.M.; Witman, G.B.  
J. Cell Sci. 107, 497-506, 1994  
A:Title: Molecular analysis of the gamma heavy chain of Chlamydomonas flagellar outer-ar  
A:Reference number: Z16311; MUID:94274766; PMID:7516341  
A:Accession: T08044  
A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA  
A:Residues: 1-4485 <WII>  
A:Cross-references: UNIPROT:Q39575; EMBL:U15303; NID:g557715; PIDN:AAA50455.1; PID:g5577  
A:Experimental source: strain 1132D  
C:Superfamily: dynein heavy chain, ciliary  
C:Keywords: ATP; hydrolase; microtubule binding; nucleotide binding; P-loop  
F:1819-1826/Region: nucleotide-binding motif A (P-loop)

Query Match 100.0%; Score 24; DB 2; Length 4485;  
Best Local Similarity 100.0%; Pred.No. 1.4e+03; Indels 0; Gaps 0;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SMRER 5  
Db 1330 SMRER 1334

Search completed: February 3, 2005, 09:37:24  
Job time : 42 secs